FAMU-FSU Joint College of Engineering Study

Appendices

Prepared for The State University System of Florida Board of Governors

January 12, 2015

Collaborative Braintrust Consulting Firm
1415 L Street, Suite 720
Sacramento, CA 95814
916-446-5058

COLLABORATIVE
CBT
BRAIN TRUST
UNIVERSITY CONSULTING

Table of Contents

VII. Appendices

A. Tables on Scope of Engineering Education in Florida

1. Methodology for Joint College Data Requests

RFP 2014-03 FAMU-FSU Joint College of Engineering required that various data be gathered by CBT from FAMU and FSU, as well as from other public and private postsecondary engineering programs in Florida. Mary Harrington, CBT Consultant, worked with Dr. Jason Jones, Director of Institutional Research for the State University System of Florida Board of Governors, to create two separate data request templates: one for FAMU and FSU and another for the other institutions offering engineering programs. The template for FAMU and FSU was reviewed by Dr. Kwadowo Owusu-Adeumiri, Assistant Vice President of Institutional Research and Reporting for FAMU and by Dr. Richard Burnette, Institutional Data Administrator and Director of Institutional Research at Florida State University. This review resulted in several clarifications and modifications to the original template, including the identification of data to be provided by Dr. Reginald Perry, Professor and Associate Dean for Student Affairs and Curriculum for the FAMU-FSU College of Engineering. In addition, Dr. Jones supplied data, such as enrollment trends and time-to-degree, for institutions in the state system.

Based on these efforts, the following reports were created. The source for the data is footnoted in each report, and data definitions are provided were appropriate. The naming conventions and numbering align with the data requests listed in the "Scope of Services" section of the RFP.

Report #	Description of Report
1A	Engineering Programs and Enrollment in Florida
2BC	FAMU FSU Joint College Faculty and Staff
2D	FAMU FSU Enrollments, 2004 to 2019
2E	FAMU FSU Admissions Requirements
2E-1	FAMU FSU New Student Credentials (not required by RFP but pertinent data)
2F	FAMU FSU Student and Faculty Recruitment
2G	FAMU FSU Current and Future Research
2H	FAMU FSU Research Awards and Expenditures
2I – 1	FAMU FSU Graduation Rates
2I – 2	Peer Graduation Rates
2I -- 3	Time-to-Degree 2004 to 2012
2JK	Joint College Current and Projected Budget
2L	FAMU FSU Licensure Pass Rates

2. Table 2: FAMU-FSU Top 25 Comparison

USNews Rank Publics	AAU		ASEE #'s Faculty	ASEE #'s UG	ASEE #'s Grad	ASEE #'s Res Exp.	Note	
5	yes	Michigan	381	5923	3180	$ 234	UM FT Grad=2854	UM FT UG=5740
23	yes	U Florida	270	5990	2633	$ 64	UF FT Grad=1977	UM FT UG=5554
24	no	Arizona State	231	7939	3282	$ 78	ASU FT Grad=1977	ASU FT UG=7143
25	yes	U Pittsburgh	120	2625	981	$ 84	UP FT Grad=672	UP FT UG=2577
26	yes	Iowa State	242	7272	1161	$ 80	ISU FT Grad=1161	ISU FT UG=6839
27	yes	Rutgers	143	3427	989	$ 45	RU FT Grad=670	RU FT UG=2577
		AVG 23-27	201.2	5450.6	1809.2	$ 70		
51	no	UCF	140	7009	1264	$ 37	UCF FT Grad=791	UCF FT UG=5095
67	no	FAMU FSU	84	2316	279	$ 10	No PT @UG or G reported	
77	no	USF	110	3739	865	$ 31	USF FT Grad=658	USF FT UG=3048
Ratio = Joint College/(AVG 23-27)			0.4175	0.4249	0.1542	0.1425		

All data from American Society for Engineering Education, 2013 database
FT = full time
PT = part time
Res Exp. = Research Expenditures

Table 1A — **FAMU-FSU Joint College of Engineering Study** — **RFP # 1A**

Headcount Enrollment in Engineering Programs in Florida Institutions

By Gender, Race/Ethnicity, and Degree Level for Fall 2013-14

SUMMARY BY LEVEL - HEADCOUNT

Undergraduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
FAMU	103	242	1	1	311	0	8	8	0	0	16	345
FAU	245	1,641	3	105	303	4	453	77	58	29	854	1,886
FGC	113	486	1	14	26	1	125	29	13	7	383	599
FIU	549	2,442	3	100	305	3	2,000	254	50	28	248	2,991
FSU	433	1,463	7	81	138	6	331	68	50	34	1,181	1,896
UCF	813	4,207	13	322	346	10	1,210	70	134	31	2,884	5,020
UF	1,290	3,912	2	439	210	12	1,057	73	140	148	3,121	5,202
UNF	95	603	0	50	42	0	69	20	32	2	483	698
USF	671	2,910	6	215	220	10	640	374	114	46	1,956	3,581
UWF	41	432	3	21	40	3	50	13	15	4	324	473
Total Undergradua	**4,353**	**18,338**	**39**	**1,348**	**1,941**	**49**	**5,943**	**986**	**606**	**329**	**11,450**	**22,691**

Graduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
FAMU	11	13	0	0	22	0	0	2	0	0	0	24
FAU	45	176	1	17	18	1	47	49	5	2	81	221
FGC	0	0	0	0	0	0	0	0	0	0	0	0
FIU	136	435	0	19	39	2	157	300	6	2	46	571
FSU	42	204	0	5	10	0	17	121	1	7	85	246
UCF	206	803	1	53	29	0	116	401	22	48	339	1,009
UF	566	2,093	3	109	53	2	148	1,531	19	62	732	2,659
UNF	9	26	0	3	2	0	1	4	0	0	25	35
USF	207	666	0	36	39	2	93	372	10	12	309	873
UWF	0	0	0	0	0	0	0	0	0	0	0	0
Total Graduate	**1,222**	**4,416**	**5**	**242**	**212**	**7**	**579**	**2,780**	**63**	**133**	**1,617**	**5,638**

Total Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
FAMU	114	255	1	1	333	0	8	10	0	0	16	369
FAU	290	1,817	4	122	321	5	500	126	63	31	935	2,107
FGC	113	486	1	14	26	1	125	29	13	7	383	599
FIU	685	2,877	3	119	344	5	2,157	554	56	30	294	3,562
FSU	475	1,667	7	86	148	6	348	189	51	41	1,266	2,142
UCF	1,019	5,010	14	375	375	10	1,326	471	156	79	3,223	6,029
UF	1,856	6,005	5	548	263	14	1,205	1,604	159	210	3,853	7,861
UNF	104	629	0	53	44	0	70	24	32	2	508	733
USF	878	3,576	6	251	259	12	733	746	124	58	2,265	4,454
UWF	41	432	3	21	40	3	50	13	15	4	324	473
Total Enrollment	**5,575**	**22,754**	**44**	**1,590**	**2,153**	**56**	**6,522**	**3,766**	**669**	**462**	**13,067**	**28,329**

Table 1A — **FAMU-FSU Joint College of Engineering Study** — **RFP # 1A**

Headcount Enrollment in Engineering Programs in Florida Institutions

By Gender, Race/Ethnicity, and Degree Level for Fall 2013-14

SUMMARY BY LEVEL - PERCENTAGES

Undergraduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
FAMU	2%	1%	3%	0%	16%	0%	0%	1%	0%	0%	0%	2%
FAU	6%	9%	8%	8%	16%	8%	8%	8%	10%	9%	7%	8%
FGC	3%	3%	3%	1%	1%	2%	2%	3%	2%	2%	3%	3%
FIU	13%	13%	8%	7%	16%	6%	34%	26%	8%	9%	2%	13%
FSU	10%	8%	18%	6%	7%	12%	6%	7%	8%	10%	10%	8%
UCF	19%	23%	33%	24%	18%	20%	20%	7%	22%	9%	25%	22%
UF	30%	21%	5%	33%	11%	24%	18%	7%	23%	45%	27%	23%
UNF	2%	3%	0%	4%	2%	0%	1%	2%	5%	1%	4%	3%
USF	15%	16%	15%	16%	11%	20%	11%	38%	19%	14%	17%	16%
UWF	1%	2%	8%	2%	2%	6%	1%	1%	2%	1%	3%	2%
Total Undergradu	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**

Graduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
FAMU	1%	0%	0%	0%	10%	0%	0%	0%	0%	0%	0%	0%
FAU	4%	4%	20%	7%	8%	14%	8%	2%	8%	2%	5%	4%
FGC	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
FIU	11%	10%	0%	8%	18%	29%	27%	11%	10%	2%	3%	10%
FSU	3%	5%	0%	2%	5%	0%	3%	4%	2%	5%	5%	4%
UCF	17%	18%	20%	22%	14%	0%	20%	14%	35%	36%	21%	18%
UF	46%	47%	60%	45%	25%	29%	26%	55%	30%	47%	45%	47%
UNF	1%	1%	0%	1%	1%	0%	0%	0%	0%	0%	2%	1%
USF	17%	15%	0%	15%	18%	29%	16%	13%	16%	9%	19%	15%
UWF	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Total Graduate	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**

Total Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
FAMU	2%	1%	2%	0%	15%	0%	0%	0%	0%	0%	0%	1%
FAU	5%	8%	9%	8%	15%	9%	8%	3%	9%	7%	7%	7%
FGC	2%	2%	2%	1%	1%	2%	2%	1%	2%	2%	3%	2%
FIU	12%	13%	7%	7%	16%	9%	33%	15%	8%	6%	2%	13%
FSU	9%	7%	16%	5%	7%	11%	5%	5%	8%	9%	10%	8%
UCF	18%	22%	32%	24%	17%	18%	20%	13%	23%	17%	25%	21%
UF	33%	26%	11%	34%	12%	25%	18%	43%	24%	45%	29%	28%
UNF	2%	3%	0%	3%	2%	0%	1%	1%	5%	0%	4%	3%
USF	16%	16%	14%	16%	12%	21%	11%	20%	19%	13%	17%	16%
UWF	1%	2%	7%	1%	2%	5%	1%	0%	2%	1%	2%	2%
Total Enrollment	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**	**100%**

Table 1A

FAMU-FSU Joint College of Engineering Study
Headcount Enrollment in Engineering Programs in Florida Institutions
By Gender, Race/Ethnicity, and Degree Level for Fall 2013-14

RFP # 1A

SUMMARY BY LEVEL - HEADCOUNT

Private Schools are highlighted in green.

Undergraduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
FAMU	103	242	1	1	311	0	8	8	0	0	16	345
FAU	245	1,641	3	105	303	4	453	77	58	29	854	1,886
FGC	113	486	1	14	26	1	125	29	13	7	383	599
FIU	549	2,442	3	100	305	3	2,000	254	50	28	248	2,991
FSU	433	1,463	7	81	138	6	331	68	50	34	1,181	1,896
UCF	813	4,207	13	322	346	10	1,210	70	134	31	2,884	5,020
UF	1,290	3,912	2	439	210	12	1,057	73	140	148	3,121	5,202
UNF	95	603	0	50	42	0	69	20	32	2	483	698
USF	671	2,910	6	215	220	10	640	374	114	46	1,956	3,581
UWF	41	432	3	21	40	3	50	13	15	4	324	473
Embry Riddle	301	1,491	8	93	75	6	114	288	86	144	978	1,792
FL Tech	259	1,346	1	31	65	1	105	614	22	193	573	1,605
U of Miami	286	734	1	42	73	1	234	206	31	55	377	1,020
Total Undergradua	**5,199**	**21,909**	**49**	**1,514**	**2,154**	**57**	**6,396**	**2,094**	**745**	**721**	**13,378**	**27,108**

Graduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
FAMU	11	13	0	0	22	0	0	2	0	0	0	24
FAU	45	176	1	17	18	1	47	49	5	2	81	221
FGC	0	0	0	0	0	0	0	0	0	0	0	0
FIU	136	435	0	19	39	2	157	300	6	2	46	571
FSU	42	204	0	5	10	0	17	121	1	7	85	246
UCF	206	803	1	53	29	0	116	401	22	48	339	1,009
UF	566	2,093	3	109	53	2	148	1,531	19	62	732	2,659
UNF	7	13	0	1	1	0	1	1	0	0	16	20
USF	9	39	0	2	2	0	3	36	0	1	4	48
UWF	0	0	0	0	0	0	0	0	0	0	0	0
Embry Riddle	55	249	0	16	6	0	12	159	7	23	81	304
FL Tech	95	401	0	16	8	0	19	284	3	34	132	496
U of Miami	65	181	0	10	3	1	42	132	3	5	50	246
Total Graduate	**1,237**	**4,607**	**5**	**248**	**191**	**6**	**562**	**3,016**	**66**	**184**	**1,566**	**5,844**

Total Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
FAMU	114	255	1	1	333	0	8	10	0	0	16	369
FAU	290	1,817	4	122	321	5	500	126	63	31	935	2,107
FGC	113	486	1	14	26	1	125	29	13	7	383	599
FIU	685	2,877	3	119	344	5	2,157	554	56	30	294	3,562
FSU	475	1,667	7	86	148	6	348	189	51	41	1,266	2,142
UCF	1,019	5,010	14	375	375	10	1,326	471	156	79	3,223	6,029
UF	1,856	6,005	5	548	263	14	1,205	1,604	159	210	3,853	7,861
UNF	102	616	0	51	43	0	70	21	32	2	499	718
USF	680	2,949	6	217	222	10	643	410	114	47	1,960	3,629
UWF	41	432	3	21	40	3	50	13	15	4	324	473
Embry Riddle	356	1,740	8	109	81	6	126	447	93	167	1,059	2,096
FL Tech	354	1,747	1	47	73	1	124	898	25	227	705	2,101
U of Miami	351	915	1	52	76	2	276	338	34	60	427	1,266
Total Enrollment	**6,436**	**26,516**	**54**	**1,762**	**2,345**	**63**	**6,958**	**5,110**	**811**	**905**	**14,944**	**32,952**

Table 1A

FAMU-FSU Joint College of Engineering Study — **RFP # 1A**

Headcount Enrollment in Engineering Programs in Florida Institutions

By Gender, Race/Ethnicity, and Degree Level for Fall 2013-14

SUMMARY BY LEVEL - PERCENTAGES

Private Schools are highlighted in green.

Undergraduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
FAMU	2%	1%	2%	0%	14%	0%	0%	0%	0%	0%	0%	1%
FAU	5%	7%	6%	7%	14%	7%	7%	4%	8%	4%	6%	7%
FGC	2%	2%	2%	1%	1%	2%	2%	1%	2%	1%	3%	2%
FIU	11%	11%	6%	7%	14%	5%	31%	12%	7%	4%	2%	11%
FSU	8%	7%	14%	5%	6%	11%	5%	3%	7%	5%	9%	7%
UCF	16%	19%	27%	21%	16%	18%	19%	3%	18%	4%	22%	19%
UF	25%	18%	4%	29%	10%	21%	17%	3%	19%	21%	23%	19%
UNF	2%	3%	0%	3%	2%	0%	1%	1%	4%	0%	4%	3%
USF	13%	13%	12%	14%	10%	18%	10%	18%	15%	6%	15%	13%
UWF	1%	2%	6%	1%	2%	5%	1%	1%	2%	1%	2%	2%
Embry Riddle	6%	7%	16%	6%	3%	11%	2%	14%	12%	20%	7%	7%
FL Tech	5%	6%	2%	2%	3%	2%	2%	29%	3%	27%	4%	6%
U of Miami	6%	3%	2%	3%	3%	2%	4%	10%	4%	8%	3%	4%
Total Undergradua	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

Graduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
FAMU	1%	0%	0%	0%	12%	0%	0%	0%	0%	0%	0%	0%
FAU	4%	4%	20%	7%	9%	17%	8%	2%	8%	1%	5%	4%
FGC	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
FIU	11%	9%	0%	8%	20%	33%	28%	10%	9%	1%	3%	10%
FSU	3%	4%	0%	2%	5%	0%	3%	4%	2%	4%	5%	4%
UCF	17%	17%	20%	21%	15%	0%	21%	13%	33%	26%	22%	17%
UF	46%	45%	60%	44%	28%	33%	26%	51%	29%	34%	47%	45%
UNF	1%	0%	0%	0%	1%	0%	0%	0%	0%	0%	1%	0%
USF	1%	1%	0%	1%	1%	0%	1%	1%	0%	1%	0%	1%
UWF	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Embry Riddle	4%	5%	0%	6%	3%	0%	2%	5%	11%	13%	5%	5%
FL Tech	8%	9%	0%	6%	4%	0%	3%	9%	5%	18%	8%	8%
U of Miami	5%	4%	0%	4%	2%	17%	7%	4%	5%	3%	3%	4%
Total Graduate	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

Total Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
FAMU	2%	1%	2%	0%	14%	0%	0%	0%	0%	0%	0%	1%
FAU	5%	7%	7%	7%	14%	8%	7%	2%	8%	3%	6%	6%
FGC	2%	2%	2%	1%	1%	2%	2%	1%	2%	1%	3%	2%
FIU	11%	11%	6%	7%	15%	8%	31%	11%	7%	3%	2%	11%
FSU	7%	6%	13%	5%	6%	10%	5%	4%	6%	5%	8%	7%
UCF	16%	19%	26%	21%	16%	16%	19%	9%	19%	9%	22%	18%
UF	29%	23%	9%	31%	11%	22%	17%	31%	20%	23%	26%	24%
UNF	2%	2%	0%	3%	2%	0%	1%	0%	4%	0%	3%	2%
USF	11%	11%	11%	12%	9%	16%	9%	8%	14%	5%	13%	11%
UWF	1%	2%	6%	1%	2%	5%	1%	0%	2%	0%	2%	1%
Embry Riddle	6%	7%	15%	6%	3%	10%	2%	9%	11%	18%	7%	6%
FL Tech	6%	7%	2%	3%	3%	2%	2%	18%	3%	25%	5%	6%
U of Miami	5%	3%	2%	3%	3%	3%	4%	7%	4%	7%	3%	4%
Total Enrollment	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

Table 1A

FAMU-FSU Joint College of Engineering Study — **RFP # 1A**

Headcount Enrollment in Engineering Programs in Florida Institutions

By Gender, Race/Ethnicity, and Degree Level for Fall 2013-14

FLORIDA A&M UNIVERSITY

Undergraduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Agricultural Engineering	12	12	0	0	22	0	2	0	0	0	0	24
Chemical Engineering	24	19	0	0	37	0	1	4	0	0	1	43
Civil Engineering	19	47	0	0	62	0	0	1	0	0	3	66
Computer Engineering	17	40	0	0	53	0	2	0	0	0	2	57
Electrical Engineering	9	39	0	1	41	0	0	3	0	0	3	48
Mechanical Engineering	14	71	1	0	74	0	3	0	0	0	7	85
Industrial Engineering	8	14	0	0	22	0	0	0	0	0	0	22
Total Undergraduate	**103**	**242**	**1**	**1**	**311**	**0**	**8**	**8**	**0**	**0**	**16**	**345**

Graduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Chemical Engineering	0	1	0	0	1	0	0	0	0	0	0	1
Civil Engineering	6	2	0	0	7	0	0	1	0	0	0	8
Electrical Engineering	2	5	0	0	7	0	0	0	0	0	0	7
Mechanical Engineering	2	2	0	0	4	0	0	0	0	0	0	4
Industrial Engineering	1	3	0	0	3	0	0	1	0	0	0	4
Total Graduate	**11**	**13**	**0**	**0**	**22**	**0**	**0**	**2**	**0**	**0**	**0**	**24**

Total Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Agricultural Engineering	12	12	0	0	22	0	2	0	0	0	0	24
Chemical Engineering	24	20	0	0	38	0	1	4	0	0	1	44
Civil Engineering	25	49	0	0	69	0	0	2	0	0	3	74
Computer Engineering	17	40	0	0	53	0	2	0	0	0	2	57
Electrical Engineering	11	44	0	1	48	0	0	3	0	0	3	55
Mechanical Engineering	16	73	1	0	78	0	3	0	0	0	7	89
Industrial Engineering	9	17	0	0	25	0	0	1	0	0	0	26
Total Enrollment	**114**	**255**	**1**	**1**	**333**	**0**	**8**	**10**	**0**	**0**	**16**	**369**

Data provided by Jason Jones, State University System of Florida, July 2013

Does not include any Engineering Technology (CIP 15.xxxx) enrollments

Table 1A

FAMU-FSU Joint College of Engineering Study — **RFP # 1A**

Headcount Enrollment in Engineering Programs in Florida Institutions

By Gender, Race/Ethnicity, and Degree Level for Fall 2013-14

FLORIDA ATLANTIC UNIVERSITY

Undergraduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Civil Engineering	45	180	0	8	47	1	60	15	5	1	88	225
Computer Engineering	22	128	1	7	22	1	43	7	4	0	65	150
Electrical Engineering	14	172	0	17	44	0	47	9	3	4	62	186
Engineering, Other	114	811	1	51	157	2	232	32	35	16	399	925
Mechanical Engineering	27	241	1	20	28	0	57	10	8	7	137	268
Ocean Engineering	21	101	0	2	3	0	14	4	3	1	95	122
Surveying Engineering	2	8	0	0	2	0	0	0	0	0	8	10
Total Undergraduate	**245**	**1641**	**3**	**105**	**303**	**4**	**453**	**77**	**58**	**29**	**854**	**1886**

Graduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Biomedical Engineering	8	7	0	2	2	0	3	4	0	0	4	15
Civil Engineering	10	14	0	3	2	0	4	4	1	0	10	24
Computer Engineering	7	39	0	7	6	0	14	9	0	1	9	46
Electrical Engineering	4	50	0	4	6	1	13	14	2	0	14	54
Mechanical Engineering	8	26	0	0	2	0	8	7	1	0	16	34
Ocean Engineering	8	40	1	1	0	0	5	11	1	1	28	48
Total Graduate	**45**	**176**	**1**	**17**	**18**	**1**	**47**	**49**	**5**	**2**	**81**	**221**

Total Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Biomedical Engineering	8	7	0	2	2	0	3	4	0	0	4	15
Civil Engineering	55	194	0	11	49	1	64	19	6	1	98	249
Computer Engineering	29	167	1	14	28	1	57	16	4	1	74	196
Electrical Engineering	18	222	0	21	50	1	60	23	5	4	76	240
Engineering, Other	114	811	1	51	157	2	232	32	35	16	399	925
Mechanical Engineering	35	267	1	20	30	0	65	17	9	7	153	302
Ocean Engineering	29	141	1	3	3	0	19	15	4	2	123	170
Surveying Engineering	2	8	0	0	2	0	0	0	0	0	8	10
Total Enrollment	**290**	**1817**	**4**	**122**	**321**	**5**	**500**	**126**	**63**	**31**	**935**	**2107**

Data provided by Jason Jones, State University System of Florida, July 2013

Does not include any Engineering Technology (CIP 15.xxxx)enrollments

Table 1A

FAMU-FSU Joint College of Engineering Study
Headcount Enrollment in Engineering Programs in Florida Institutions
By Gender, Race/Ethnicity, and Degree Level for Fall 2013-14

RFP # 1A

FLORIDA GULF COAST UNIVERSITY

Undergraduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Biomedical Engineering	52	128	0	7	10	0	42	11	8	4	98	180
Civil Engineering	29	253	0	5	13	1	60	10	4	1	188	282
Environmental Engineering	32	105	1	2	3	0	23	8	1	2	97	137
Total Undergraduate	**113**	**486**	**1**	**14**	**26**	**1**	**125**	**29**	**13**	**7**	**383**	**599**

Graduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Total Graduate	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Total Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Biomedical Engineering	52	128	0	7	10	0	42	11	8	4	98	180
Civil Engineering	29	253	0	5	13	1	60	10	4	1	188	282
Environmental Engineering	32	105	1	2	3	0	23	8	1	2	97	137
Total Enrollment	**113**	**486**	**1**	**14**	**26**	**1**	**125**	**29**	**13**	**7**	**383**	**599**

Data provided by Jason Jones, State University System of Florida, July 2013

Does not include any Engineering Technology (CIP 15.xxxx) enrollments

Table 1A — **FAMU-FSU Joint College of Engineering Study** — **RFP # 1A**

Headcount Enrollment in Engineering Programs in Florida Institutions

By Gender, Race/Ethnicity, and Degree Level for Fall 2013-14

FLORIDA INTERNATIONAL UNIVERSITY

Undergraduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Biomedical Engineering	168	292	0	26	49	1	303	21	14	6	40	460
Civil Engineering	137	462	0	8	64	0	420	58	5	4	40	599
Computer Engineering	58	473	0	14	63	0	368	33	12	8	33	531
Electrical Engineering	45	456	0	16	54	1	315	58	6	6	45	501
Environmental Engineering	48	58	0	3	11	0	60	13	1	1	17	106
Mechanical Engineering	93	701	3	33	64	1	534	71	12	3	73	794
Total Undergraduate	**549**	**2442**	**3**	**100**	**305**	**3**	**2000**	**254**	**50**	**28**	**248**	**2991**

Graduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Biomedical Engineering	16	23	0	3	2	0	5	22	1	0	6	39
Civil Engineering	34	84	0	3	8	0	29	64	3	1	10	118
Computer Engineering	6	28	0	2	3	0	8	17	1	0	3	34
Electrical Engineering	23	107	0	2	8	0	23	90	0	0	7	130
Engineering Management	24	95	0	5	14	2	57	35	0	1	5	119
Environmental Engineering	8	7	0	1	1	0	7	2	0	0	4	15
Materials Engineering	13	20	0	0	0	0	4	28	0	0	1	33
Mechanical Engineering	6	43	0	3	2	0	14	21	1	0	8	49
Telecom Engineering	6	28	0	0	1	0	10	21	0	0	2	34
Total Graduate	**136**	**435**	**0**	**19**	**39**	**2**	**157**	**300**	**6**	**2**	**46**	**571**

Total Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Biomedical Engineering	184	315	0	29	51	1	308	43	15	6	46	499
Civil Engineering	171	546	0	11	72	0	449	122	8	5	50	717
Computer Engineering	64	501	0	16	66	0	376	50	13	8	36	565
Electrical Engineering	68	563	0	18	62	1	338	148	6	6	52	631
Engineering Management	24	95	0	5	14	2	57	35	0	1	5	119
Environmental Engineering	56	65	0	4	12	0	67	15	1	1	21	121
Materials Engineering	13	20	0	0	0	0	4	28	0	0	1	33
Mechanical Engineering	99	744	3	36	66	1	548	92	13	3	81	843
Telecom Engineering	6	28	0	0	1	0	10	21	0	0	2	34
Total Enrollment	**685**	**2877**	**3**	**119**	**344**	**5**	**2157**	**554**	**56**	**30**	**294**	**3562**

Data provided by Jason Jones, State University System of Florida, July 2013

Does not include any Engineering Technology (CIP 15.xxxx)enrollments

Table 1A — **FAMU-FSU Joint College of Engineering Study** — **RFP # 1A**

Headcount Enrollment in Engineering Programs in Florida Institutions
By Gender, Race/Ethnicity, and Degree Level for Fall 2013-14

FLORIDA STATE UNIVERSITY

Undergraduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Chemical Engineering	70	148	0	11	16	0	43	9	7	5	127	218
Civil Engineering	63	182	1	6	13	1	23	9	4	3	185	245
Computer Engineering	8	58	0	8	14	2	15	2	1	2	22	66
Electrical Engineering	22	149	2	10	24	0	24	9	5	3	94	171
Engineering, Other	190	597	2	29	50	1	167	11	23	11	493	787
Industrial Engineering	31	49	0	2	2	0	15	23	0	0	38	80
Mechanical Engineering	49	280	2	15	19	2	44	5	10	10	222	329
Total Undergraduate	**433**	**1463**	**7**	**81**	**138**	**6**	**331**	**68**	**50**	**34**	**1181**	**1896**

Graduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Biomedical Engineering	1	5	0	0	0	0	1	4	0	0	1	6
Chemical Engineering	5	13	0	1	0	0	0	13	0	1	3	18
Civil Engineering	7	43	0	1	3	0	5	18	1	1	21	50
Electrical Engineering	14	60	0	2	3	0	2	44	0	1	22	74
Industrial Engineering	7	24	0	1	3	0	1	19	0	2	5	31
Mechanical Engineering	8	59	0	0	1	0	8	23	0	2	33	67
Total Graduate	**42**	**204**	**0**	**5**	**10**	**0**	**17**	**121**	**1**	**7**	**85**	**246**

Total Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Biomedical Engineering	1	5	0	0	0	0	1	4	0	0	1	6
Chemical Engineering	75	161	0	12	16	0	43	22	7	6	130	236
Civil Engineering	70	225	1	7	16	1	28	27	5	4	206	295
Computer Engineering	8	58	0	8	14	2	15	2	1	2	22	66
Electrical Engineering	36	209	2	12	27	0	26	53	5	4	116	245
Engineering, Other	190	597	2	29	50	1	167	11	23	11	493	787
Industrial Engineering	38	73	0	3	5	0	16	42	0	2	43	111
Mechanical Engineering	57	339	2	15	20	2	52	28	10	12	255	396
Total Enrollment	**475**	**1667**	**7**	**86**	**148**	**6**	**348**	**189**	**51**	**41**	**1266**	**2142**

Data provided by Jason Jones, State University System of Florida, July 2013

Does not include any Engineering Technology (CIP 15.xxxx)enrollments

Table 1A — **FAMU-FSU Joint College of Engineering Study** — **RFP # 1A**

Headcount Enrollment in Engineering Programs in Florida Institutions

By Gender, Race/Ethnicity, and Degree Level for Fall 2013-14

UNIVERSITY OF CENTRAL FLORIDA

Undergraduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Aerospace Engineering	80	512	2	52	31	0	130	6	24	5	342	592
Civil Engineering	124	455	0	20	41	0	144	15	9	4	346	579
Computer Engineering	63	577	0	55	61	1	168	7	12	1	335	640
Electrical Engineering	86	732	2	78	68	2	184	9	31	10	434	818
Engineering, Other	9	42	0	1	4	0	14	0	1	1	30	51
Environmental Engineering	87	127	1	7	11	1	40	3	9	2	140	214
Industrial Engineering	151	260	3	22	29	1	134	13	5	1	203	411
Mechanical Engineering	207	1432	4	82	98	4	379	17	42	7	1006	1639
Optical Sci/Engineering	3	26	1	2	1	1	6	0	1	0	17	29
Structural Engineering	3	44	0	3	2	0	11	0	0	0	31	47
Total Undergraduate	**813**	**4207**	**13**	**322**	**346**	**10**	**1210**	**70**	**134**	**31**	**2884**	**5020**

Graduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Aerospace Engineering	2	25	1	2	0	0	4	0	0	3	17	27
Civil Engineering	31	115	0	5	6	0	22	62	4	3	44	146
Computer Engineering	12	71	0	7	3	0	11	34	1	8	19	83
Electrical Engineering	31	159	0	8	4	0	14	102	0	7	55	190
Environmental Engineering	17	25	0	5	1	0	3	7	2	2	22	42
Industrial Engineering	60	145	0	9	12	0	38	54	8	17	67	205
Materials Engineering	14	41	0	2	1	0	1	27	3	1	20	55
Mechanical Engineering	22	131	0	12	1	0	18	55	3	5	59	153
Optical Science/Engineerin	17	91	0	3	1	0	5	60	1	2	36	108
Total Graduate	**206**	**803**	**1**	**53**	**29**	**0**	**116**	**401**	**22**	**48**	**339**	**1009**

Total Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Aerospace Engineering	82	537	3	54	31	0	134	6	24	8	359	619
Civil Engineering	155	570	0	25	47	0	166	77	13	7	390	725
Computer Engineering	75	648	0	62	64	1	179	41	13	9	354	723
Electrical Engineering	117	891	2	86	72	2	198	111	31	17	489	1008
Engineering, Other	9	42	0	1	4	0	14	0	1	1	30	51
Environmental Engineering	104	152	1	12	12	1	43	10	11	4	162	256
Industrial Engineering	211	405	3	31	41	1	172	67	13	18	270	616
Materials Engineering	14	41	0	2	1	0	1	27	3	1	20	55
Mechanical Engineering	229	1563	4	94	99	4	397	72	45	12	1065	1792
Optical Science/Engineerin	20	117	1	5	2	1	11	60	2	2	53	137
Structural Engineering	3	44	0	3	2	0	11	0	0	0	31	47
Total Enrollment	**1019**	**5010**	**14**	**375**	**375**	**10**	**1326**	**471**	**156**	**79**	**3223**	**6029**

Data provided by Jason Jones, State University System of Florida, July 2013
Does not include any Engineering Technology (CIP 15.xxxx)enrollments
NOTE: Seven unclassified degrees were counted in undergraduate enrollments.

Table 1A — **FAMU-FSU Joint College of Engineering Study** — **RFP # 1A**

Headcount Enrollment in Engineering Programs in Florida Institutions

By Gender, Race/Ethnicity, and Degree Level for Fall 2013-14

UNIVERSITY OF FLORIDA

Undergraduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Aerospace Engineering	67	325	0	27	10	2	79	4	12	4	254	392
Agricultural Engineering	31	44	0	7	5	0	13	1	1	1	47	75
Biological Engineering	66	103	1	14	7	1	20	2	4	6	114	169
Biomedical Engineering	62	104	0	29	3	2	28	2	4	6	92	166
Chemical Engineering	194	421	0	68	26	0	124	5	17	18	357	615
Civil Engineering	111	331	0	20	24	2	93	18	11	15	259	442
Computer Engineering	48	419	0	66	30	0	80	5	9	13	264	467
Electrical Engineering	78	445	1	54	31	1	99	7	12	22	296	523
Environmental Engineering	111	78	0	14	2	1	43	5	6	7	111	189
Materials Engineering	69	106	0	17	6	0	36	1	12	6	97	175
Mechanical Engineering	192	1005	0	71	28	2	256	11	33	31	765	1197
Nuclear Engineering	24	95	0	5	5	0	23	1	2	4	79	119
Systems Engineering	237	436	0	47	33	1	163	11	17	15	386	673
Total Undergraduate	**1290**	**3912**	**2**	**439**	**210**	**12**	**1057**	**73**	**140**	**148**	**3121**	**5202**

Graduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Aerospace Engineering	9	68	0	5	4	0	13	17	0	3	35	77
Agricultural Engineering	33	38	0	5	1	0	2	46	1	1	15	71
Biomedical Engineering	53	72	0	7	1	0	15	45	2	3	52	125
Chemical Engineering	61	149	0	10	2	0	8	161	0	3	26	210
Civil Engineering	40	204	1	6	8	0	21	105	2	7	94	244
Computer Engineering	66	302	0	7	3	0	6	310	0	8	34	368
Electrical Engineering	84	400	0	23	10	1	18	329	4	14	85	484
Environmental Engineering	53	86	0	2	5	0	13	28	3	9	79	139
Materials Engineering	59	204	0	15	6	0	10	154	3	1	74	263
Mechanical Engineering	33	327	1	15	5	0	13	210	1	7	108	360
Nuclear Engineering	4	23	0	1	0	0	5	7	1	1	12	27
Ocean Engineering	11	32	0	0	0	0	1	28	0	1	13	43
Systems Engineering	60	188	1	13	8	1	23	91	2	4	105	248
Total Graduate	**566**	**2093**	**3**	**109**	**53**	**2**	**148**	**1531**	**19**	**62**	**732**	**2659**

Total Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Aerospace Engineering	76	393	0	32	14	2	92	21	12	7	289	469
Agricultural Engineering	64	82	0	12	6	0	15	47	2	2	62	146
Biological Engineering	66	103	1	14	7	1	20	2	4	6	114	169
Biomedical Engineering	115	176	0	36	4	2	43	47	6	9	144	291
Chemical Engineering	255	570	0	78	28	0	132	166	17	21	383	825
Civil Engineering	151	535	1	26	32	2	114	123	13	22	353	686
Computer Engineering	114	721	0	73	33	0	86	315	9	21	298	835
Electrical Engineering	162	845	1	77	41	2	117	336	16	36	381	1007
Environmental Engineering	164	164	0	16	7	1	56	33	9	16	190	328
Materials Engineering	128	310	0	32	12	0	46	155	15	7	171	438
Mechanical Engineering	225	1332	1	86	33	2	269	221	34	38	873	1557
Nuclear Engineering	28	118	0	6	5	0	28	8	3	5	91	146
Ocean Engineering	11	32	0	0	0	0	1	28	0	1	13	43
Systems Engineering	297	624	1	60	41	2	186	102	19	19	491	921
Total Enrollment	**1856**	**6005**	**5**	**548**	**263**	**14**	**1205**	**1604**	**159**	**210**	**3853**	**7861**

Data provided by Jason Jones, State University System of Florida, July 2013
Does not include any Engineering Technology (CIP 15.xxxx)enrollments
NOTE: Two unknown gender undergraduates were counted as males.

Table 1A | **FAMU-FSU Joint College of Engineering Study** | **RFP # 1A**

Headcount Enrollment in Engineering Programs in Florida Institutions

By Gender, Race/Ethnicity, and Degree Level for Fall 2013-14

UNIVERSITY OF NORTH FLORIDA

Undergraduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Civil Engineering	39	156	0	14	11	0	21	6	10	0	133	195
Electrical Engineering	18	153	0	16	16	0	14	7	10	1	107	171
Mechanical Engineering	38	294	0	20	15	0	34	7	12	1	243	332
Total Undergraduate	**95**	**603**	**0**	**50**	**42**	**0**	**69**	**20**	**32**	**2**	**483**	**698**

Graduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Civil Engineering	7	13	0	1	1	0	1	1	0	0	16	20
Electrical Engineering	1	6	0	1	0	0	0	1	0	0	5	7
Mechanical Engineering	1	7	0	1	1	0	0	2	0	0	4	8
Total Graduate	**9**	**26**	**0**	**3**	**2**	**0**	**1**	**4**	**0**	**0**	**25**	**35**

Total Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Civil Engineering	46	169	0	15	12	0	22	7	10	0	149	215
Electrical Engineering	19	159	0	17	16	0	14	8	10	1	112	178
Mechanical Engineering	39	301	0	21	16	0	34	9	12	1	247	340
Total Enrollment	**104**	**629**	**0**	**53**	**44**	**0**	**70**	**24**	**32**	**2**	**508**	**733**

Data provided by Jason Jones, State University System of Florida, July 2013

Does not include any Engineering Technology (CIP 15.xxxx)enrollments

NOTE: Two unknown degree included as undergraduate.

Table 1A

FAMU-FSU Joint College of Engineering Study — **RFP # 1A**

Headcount Enrollment in Engineering Programs in Florida Institutions

By Gender, Race/Ethnicity, and Degree Level for Fall 2013-14

UNIVERSITY OF SOUTH FLORIDA

Undergraduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Biomedical Engineering	2	0	0	0	0	0	0	2	0	0	0	2
Chemical Engineering	88	162	1	21	6	1	40	21	7	5	148	250
Civil Engineering	53	217	1	11	11	2	47	26	5	6	161	270
Computer Engineering	22	129	0	15	5	1	30	20	5	5	70	151
Electrical Engineering	19	246	0	20	14	0	40	40	3	3	145	265
Engineering General	5	41	0	0	0	0	0	45	0	0	1	46
Engineering Management	0	3	0	0	0	0	0	3	0	0	0	3
Engineering, Other	404	1668	4	125	157	6	404	173	85	19	1099	2072
Environmental Engineering	0	1	0	0	0	0	0	1	0	0	0	1
Industrial Engineering	41	85	0	7	9	0	24	13	2	2	69	126
Materials Engineering	0	5	0	0	0	0	0	5	0	0	0	5
Mechanical Engineering	37	353	0	16	18	0	55	25	7	6	263	390
Total Undergraduate	**671**	**2910**	**6**	**215**	**220**	**10**	**640**	**374**	**114**	**46**	**1956**	**3581**

Graduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Biomedical Engineering	18	27	0	2	2	0	6	16	0	1	18	45
Chemical Engineering	10	32	0	0	2	0	9	18	0	0	13	42
Civil Engineering	38	110	0	5	6	1	15	35	3	3	80	148
Computer Engineering	24	97	0	4	2	0	8	62	0	0	45	121
Electrical Engineering	40	189	0	15	10	1	13	140	3	2	45	229
Engineering General	10	6	0	0	5	0	2	4	0	1	4	16
Engineering Management	26	71	0	4	7	0	20	16	2	2	46	97
Environmental Engineering	21	23	0	1	1	0	7	3	1	0	31	44
Industrial Engineering	9	39	0	2	2	0	3	36	0	1	4	48
Materials Engineering	1	3	0	1	0	0	0	2	0	0	1	4
Mechanical Engineering	10	69	0	2	2	0	10	40	1	2	22	79
Total Graduate	**207**	**666**	**0**	**36**	**39**	**2**	**93**	**372**	**10**	**12**	**309**	**873**

Total Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Biomedical Engineering	20	27	0	2	2	0	6	18	0	1	18	47
Chemical Engineering	98	194	1	21	8	1	49	39	7	5	161	292
Civil Engineering	91	327	1	16	17	3	62	61	8	9	241	418
Computer Engineering	46	226	0	19	7	1	38	82	5	5	115	272
Electrical Engineering	59	435	0	35	24	1	53	180	6	5	190	494
Engineering General	15	47	0	0	5	0	2	49	0	1	5	62
Engineering Management	26	74	0	4	7	0	20	19	2	2	46	100
Engineering, Other	404	1668	4	125	157	6	404	173	85	19	1099	2072
Environmental Engineering	21	24	0	1	1	0	7	4	1	0	31	45
Industrial Engineering	50	124	0	9	11	0	27	49	2	3	73	174
Materials Engineering	1	8	0	1	0	0	0	7	0	0	1	9
Mechanical Engineering	47	422	0	18	20	0	65	65	8	8	285	469
Total Enrollment	**878**	**3576**	**6**	**251**	**259**	**12**	**733**	**746**	**124**	**58**	**2265**	**4454**

Data provided by Jason Jones, State University System of Florida, July 2013

Does not include any Engineering Technology (CIP 15.xxxx)enrollments

NOTE: One unknown gender undergraduate was counted as male.

Table 1A

FAMU-FSU Joint College of Engineering Study **RFP# 1A**

Headcount Enrollment in Engineering Programs in Florida Institutions

By Gender, Race/Ethnicity, and Degree Level for Fall 2013-14

UNIVERSITY OF WEST FLORIDA

Undergraduate Enrollmen	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Computer Engineering	13	103	0	5	11	2	15	3	4	2	74	116
Electrical Engineering	28	329	3	16	29	1	35	10	11	2	250	357
Total Undergraduate	**41**	**432**	**3**	**21**	**40**	**3**	**50**	**13**	**15**	**4**	**324**	**473**

Graduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Total Graduate	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**

Total Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Computer Engineering	13	103	0	5	11	2	15	3	4	2	74	116
Electrical Engineering	28	329	3	16	29	1	35	10	11	2	250	357
Total Enrollment	**41**	**432**	**3**	**21**	**40**	**3**	**50**	**13**	**15**	**4**	**324**	**473**

Data provided by Jason Jones, State University System of Florida, July 2013

Does not include any Engineering Technology (CIP 15.xxxx)enrollments

Table 1A	FAMU-FSU Joint College of Engineering Study Headcount Enrollment in Engineering Programs in Florida Institutions By Gender, Race/Ethnicity, and Degree Level for Fall 2013-14	RFP # 1A

DeVRY UNIVERSITY

DeVry University does not offer any Engineering Science (CIP 14.xxxx) degrees.

Table 1A

FAMU-FSU Joint College of Engineering Study
Headcount Enrollment in Engineering Programs in Florida Institutions
By Gender, Race/Ethnicity, and Degree Level for Fall 2013-14

RFP #1A

Please report Fall 2013 census date enrollment figures for all Engineering programs beginning with CIP 14.xxxx. Add more lines if necessary.

EMBRY-RIDDLE AERONAUTICAL UNIVERSITY (Daytona Beach, FL Campus)

Undergraduate Programs	CIP	Females	Male	Amer Indian	Asian	Black or Af Am	HI or Pac Islander	Hispanic	Non-Res Alien	Two or More	Unknown	White	TOTAL
Aerospace Engineering (B)	14.0201	193	1028	5	77	46	4	76	203	49	96	665	1221
Civil Engineering (B)	14.0899	13	23		1	1		2	8	6	1	17	36
Computer Engineering (B)	14.0901	4	32	1	1	1		1	6		6	20	36
Electrical Engineering (B)	14.1001	4	50		2	7	1	1	14	1	2	26	54
Engineering Physics (B)	14.1201	18	63	1	3		1	4	6	4	9	53	81
Mechanical Engineering (B)	14.1901	49	203	1	6	13		21	32	19	22	138	252
Software Engineering (B)	14.0903	6	28					1	8	1	1	23	34
Still Exploring-Engineering (B)		14	64		3	7		8	11	6	7	36	78
Total Undergraduate		**301**	**1491**	**8**	**93**	**75**	**6**	**114**	**288**	**86**	**144**	**978**	**1792**

Graduate Programs	CIP	Females	Male	Amer Indian	Asian	Black or Af Am	HI or Pac Islander	Hispanic	Non-Res Alien	Two or More	Unknown	White	TOTAL
Aerospace Engineering (M)	14.0201	16	106		5	1		3	77	2	8	26	122
Aerospace Engineering (D)	14.0201	1	2		1				2				3
Electrical & Computer Enginee	14.1001	8	22						20	1	3	6	30
Engineering Physics (M)	14.1201	7	14		1			2	4	1	3	10	21
Engineering Physics (D)	14.1201	2	8		1				5			4	10
Mechanical Engineering (M)	14.1901	15	60		5	3		5	32	3	5	22	75
Multidisciplinary MS in Engine	14.0101		14		2				4		3	5	14
Software Engineering (M)	14.0903	6	19		1	2		2	12			8	25
Unman & Auton Sys Engin (M	14.0201		4						3		1		4
Total Graduate		**55**	**249**	**0**	**16**	**6**	**0**	**12**	**159**	**7**	**23**	**81**	**304**

(B) = Bachelor's, (M) = Master's, (D) = PhD

Table 1A	FAMU-FSU Joint College of Engineering Study Headcount Enrollment in Engineering Programs in Florida Institutions By Gender, Race/Ethnicity, and Degree Level for Fall 2013-14	RFP # 1A

FLORIDA MEMORIAL UNIVERSITY

Florida Memorial University does not offer any Engineering Science (CIP 14.xxxx) degrees. They have a dual program with FIU and UM but don't grant engineering degrees themselves.

Table 1A — **FAMU-FSU Joint College of Engineering Study** — **RFP # 1A**

Headcount Enrollment in Engineering Programs in Florida Institutions
By Gender, Race/Ethnicity, and Degree Level for Fall 2013-14

UNIVERSITY OF MIAMI

Undergraduate Programs	Females	Male	Amer Indian	Asian	Black or Af Am	HI or Pac Islander	Hispanic	Non-Res Alien	Two or More	Unknown	White	TOTAL
Aerospace Engineering	7	45	0	2	3	0	10	3	6	1	27	52
Architectual Eng	24	38	0	3	5	0	6	35	1	3	9	62
Audio Engineering	3	24	0	0	1	0	8	0	0	3	15	27
Biomedical Engineering	116	170	1	24	26	0	68	13	10	23	121	286
Civil Engineering	14	59	0	1	2	1	14	29	2	2	22	73
Computer Engineering	15	48	0	3	4	0	24	9	0	3	20	63
Electrical Engineering	9	49	0	1	5	0	7	20	0	3	22	58
Engineering Science	2	2	0	0	1	0	0	2	0	0	1	4
Environmental Eng	23	13	0	1	0	0	9	3	3	1	19	36
Industrial Engineering	58	145	0	3	16	0	52	65	3	8	56	203
Mechanical Engineering	15	141	0	4	10	0	36	27	6	8	65	156
Total Undergraduate	**286**	**734**	**1**	**42**	**73**	**1**	**234**	**206**	**31**	**55**	**377**	**1020**

Graduate Programs	Females	Male	Amer Indian	Asian	Black or Af Am	HI or Pac Islander	Hispanic	Non-Res Alien	Two or More	Unknown	White	TOTAL
Aerospace Engineering	0	0	0	0	0	0	0	0	0	0	0	0
Architectual Eng	0	1	0	0	0	0	0	1	0	0	0	1
Audio Engineering	0	0	0	0	0	0	0	0	0	0	0	0
Biomedical Engineering	32	44	0	2	1	1	21	28	1	2	20	76
Civil Engineering	10	22	0	1	1	0	6	14	1	0	9	32
Computer Engineering	0	0	0	0	0	0	0	0	0	0	0	0
Electrical Engineering	7	53	0	1	0	0	6	49	0	1	3	60
Engineering Science	0	0	0	0	0	0	0	0	0	0	0	0
Environmental Eng	0	0	0	0	0	0	0	0	0	0	0	0
Industrial Engineering	12	35	0	0	1	0	4	26	0	2	14	47
Mechanical Engineering	4	26	0	6	0	0	5	14	1	0	4	30
Total Graduate	**65**	**181**	**0**	**10**	**3**	**1**	**42**	**132**	**3**	**5**	**50**	**246**

Total Enrollment	Females	Male	Amer Indian	Asian	Black or Af Am	HI or Pac Islander	Hispanic	Non-Res Alien	Two or More	Unknown	White	TOTAL
Aerospace Engineering	7	45	0	2	3	0	10	3	6	1	27	52
Architectual Eng	24	39	0	3	5	0	6	36	1	3	9	63
Audio Engineering	3	24	0	0	1	0	8	0	0	3	15	27
Biomedical Engineering	148	214	1	26	27	1	89	41	11	25	141	362
Civil Engineering	24	81	0	2	3	1	20	43	3	2	31	105
Computer Engineering	15	48	0	3	4	0	24	9	0	3	20	63
Electrical Engineering	16	102	0	2	5	0	13	69	0	4	25	118
Engineering Science	2	2	0	0	1	0	0	2	0	0	1	4
Environmental Eng	23	13	0	1	0	0	9	3	3	1	19	36
Industrial Engineering	70	180	0	3	17	0	56	91	3	10	70	250
Mechanical Engineering	19	167	0	10	10	0	41	41	7	8	69	186
Total Enrollment	**351**	**915**	**1**	**52**	**76**	**2**	**276**	**338**	**34**	**60**	**427**	**1,266**

Data provided by Peter Liu, Institutional Research, University of Miami

Prepared by CBT Consultants, September 2014 (1A)

Table 1A	FAMU-FSU Joint College of Engineering Study Headcount Enrollment in Engineering Programs in Florida Institutions By Gender, Race/Ethnicity, and Degree Level for Fall 2013-14	RFP # 1A

UNIVERSITY OF TAMPA

University of Tampa does not offer any Engineering Science (CIP 14.xxxx) degrees.

CHEMICAL ENGINEERING (14.0701)

Fiscal Year	Full-Time Faculty						Part-Time Faculty							
	Tenured		Ten Track		NonTTrack		Tenured		Ten Track		NonTTrack		Grad Assts	
	FAMU	FSU	FAMU	FSU	FAMU	FSU	FAMU	FSU	FAMU	FSU	FAMU	FSU	FAMU	FSU
FY13	1	7	1	5	0	1	0	0	0	0	0	0	0	23
FY12	1	7	1	3	0	2	0	0	0	0	0	0	0	22
FY11	1	6	1	3	0	3	0	0	0	0	0	0	0	18
FY10	1	7	1	3	0	2	0	0	0	0	0	0	0	16
FY09	1	7	1	3	0	1	0	0	0	0	0	0	0	12
FY08	1	6	1	5	0	1	0	0	0	0	0	0	0	7
FY07	1	6	1	3	0	1	0	0	1	0	0	0	0	8
FY06	2	5	1	4	0	1	0	0	1	0	0	0	0	7
FY05	2	4	2	2	0	1	0	0	1	0	0	0	0	12
FY04	2	5	0	3	1	1	1	0	2	0	1	1	0	9
TOTAL	**13**	**60**	**10**	**34**	**1**	**14**	**1**	**0**	**5**	**0**	**1**	**1**	**0**	**134**

CIVIL ENGINEERING (14.0801)

Fiscal Year	Full-Time Faculty						Part-Time Faculty							
	Tenured		Ten Track		NonTTrack		Tenured		Ten Track		NonTTrack		Grad Assts	
	FAMU	FSU	FAMU	FSU	FAMU	FSU	FAMU	FSU	FAMU	FSU	FAMU	FSU	FAMU	FSU
FY13	5	6	3	1	0	1	0	0	0	0	0	1	1	24
FY12	6	6	3	1	0	0	0	0	0	0	0	0	3	21
FY11	6	5	3	1	0	0	0	0	0	0	0	0	4	23
FY10	6	5	3	2	0	0	0	0	0	0	0	0	4	26
FY09	5	5	3	2	0	0	1	0	0	0	0	0	2	29
FY08	6	5	2	1	0	1	0	0	0	0	0	0	1	21
FY07	7	5	1	1	1	0	0	0	0	0	0	0	2	25
FY06	6	5	1	1	1	0	0	0	0	0	0	0	0	26
FY05	8	4	1	3	0	0	0	0	0	0	0	0	0	29
FY04	8	5	1	2	0	1	0	0	1	0	0	3	4	33
TOTAL	**63**	**51**	**21**	**15**	**2**	**3**	**1**	**0**	**1**	**0**	**0**	**4**	**21**	**257**

ELECTRICAL ENGINEERING (14.1001)

Fiscal Year	Full-Time Faculty						Part-Time Faculty							
	Tenured		Ten Track		NonTTrack		Tenured		Ten Track		NonTTrack		Grad Assts	
	FAMU	FSU	FAMU	FSU	FAMU	FSU	FAMU	FSU	FAMU	FSU	FAMU	FSU	FAMU	FSU
FY13	2	12	4	1	0	0	0	0	0	0	0	0	3	25
FY12	2	12	3	0	0	1	0	0	0	0	0	0	2	23
FY11	3	11	2	1	0	0	0	0	0	0	0	0	1	22
FY10	3	11	2	1	0	0	0	0	0	0	0	0	2	15
FY09	3	9	2	2	0	0	0	0	0	0	0	0	0	19
FY08	4	10	2	2	0	0	0	0	0	0	0	0	1	23
FY07	5	8	1	4	0	0	0	1	0	0	0	0	3	27
FY06	5	8	2	4	0	0	0	0	0	0	0	0	0	22
FY05	5	5	0	7	0	2	0	0	0	0	0	0	0	21
FY04	6	5	1	5	0	3	0	0	0	0	0	1	2	25
TOTAL	**38**	**91**	**19**	**27**	**0**	**6**	**0**	**1**	**0**	**0**	**0**	**1**	**14**	**222**

	MECHANICAL ENGINEERING (14.1901)															
	Full-Time Faculty							Part-Time Faculty								
Fiscal Year	Tenured		Ten Track		NonTTrack			Tenured		Ten Track		NonTTrack		Grad Assts		
	FAMU	FSU	FAMU	FSU	FAMU	FSU		FAMU	FSU	FAMU	FSU	FAMU	FSU	FAMU	FSU	
FY13	3	11	0	4	0	4		0	1	0	0	0	0	0	29	
FY12	3	12	0	4	0	2		0	0	0	0	0	0	0	39	
FY11	3	10	0	2	0	3		0	0	0	0	0	0	0	22	
FY10	2	8	0	3	0	4		0	0	0	0	0	0	1	18	
FY09	2	11	0	3	0	3		1	0	0	0	0	0	1	32	
FY08	3	10	0	4	0	4		1	0	0	0	0	0	1	18	
FY07	4	11	0	5	0	3		0	0	0	0	0	0	5	20	
FY06	2	8	2	4	0	3		0	1	0	0	0	0	0	20	
FY05	2	10	2	4	0	4		0	0	0	0	0	1	0	24	
FY04	2	9	1	3	0	3		0	0	0	0	0	7	6	23	
TOTAL	**26**	**100**	**5**	**36**	**0**	**33**		**2**	**2**	**0**	**0**	**0**	**8**	**14**	**245**	

	INDUSTRIAL ENGINEERING (14.3501)															
	Full-Time Faculty							Part-Time Faculty								
Fiscal Year	Tenured		Ten Track		NonTTrack			Tenured		Ten Track		NonTTrack		Grad Assts		
	FAMU	FSU	FAMU	FSU	FAMU	FSU		FAMU	FSU	FAMU	FSU	FAMU	FSU	FAMU	FSU	
FY13	1	3	1	4	0	2		0	0	0	0	0	2	0	31	
FY12	1	4	0	5	0	2		0	0	0	0	0	0	0	29	
FY11	0	4	0	4	0	2		0	0	0	0	0	0	1	34	
FY10	0	4	0	4	1	2		0	0	0	0	0	0	2	34	
FY09	1	5	0	4	0	1		0	0	0	0	0	0	0	39	
FY08	1	5	0	4	0	2		0	0	0	0	0	0	0	30	
FY07	1	6	0	3	0	1		0	0	0	0	0	0	0	42	
FY06	1	6	0	1	1	0		0	0	0	0	2	0	0	33	
FY05	1	5	0	2	1	0		0	0	0	0	1	0	0	31	
FY04	1	2	0	1	1	1		0	0	0	0	0	0	1	10	
TOTAL	**8**	**44**	**1**	**32**	**4**	**13**		**0**	**0**	**0**	**0**	**3**	**2**	**4**	**313**	

	TOTAL JOINT COLLEGE OF ENGINEERING FACULTY															
	Full-Time Faculty							Part-Time Faculty								
Fiscal Year	Tenured		Ten Track		NonTTrack			Tenured		Ten Track		NonTTrack		Grad Assts		
	FAMU	FSU	FAMU	FSU	FAMU	FSU		FAMU	FSU	FAMU	FSU	FAMU	FSU	FAMU	FSU	
FY13	12	39	9	15	0	8		0	1	0	0	0	3	4	132	
FY12	13	41	7	13	0	7		0	0	0	0	0	0	5	134	
FY11	13	36	6	11	0	8		0	0	0	0	0	0	6	119	
FY10	12	35	6	13	1	8		0	0	0	0	0	0	9	109	
FY09	12	37	6	14	0	5		2	0	0	0	0	0	3	131	
FY08	15	36	5	16	0	8		1	0	0	0	0	0	3	99	
FY07	18	36	3	16	1	5		0	1	1	0	0	0	10	122	
FY06	16	32	6	14	2	4		0	1	1	0	2	0	0	108	
FY05	18	28	5	18	1	7		0	0	1	0	1	1	0	117	
FY04	19	26	3	14	2	9		1	0	3	0	1	12	13	100	
TOTAL	**148**	**346**	**56**	**144**	**7**	**69**		**4**	**3**	**6**	**0**	**4**	**16**	**53**	**1171**	

NOTE: The Biomedical and Computer Engineering faculty at FSU are associated with other primary budgets.

Source: FAMU and FSU Institutional Research

Prepared by CBT Consultants, September 2014 (2B)

Table 2BC	FAMU-FSU Joint College of Engineering Study Faculty in the Joint College of Engineering	RFP #2BC

CHEMICAL ENGINEERING (14.0701)

Faculty Salaries and Fringe Benefits

Fiscal Year	Tenured		Ten Track		NonTTrack		Grad Asst/Assoc		Total	
	FAMU	FSU	FAMU	FSU	FAMU	FSU	FAMU	FSU	FAMU	FSU
FY13	119,599	994,171	106,657	538,143	0	82,612	0	185,229	226,256	1,800,155
FY12	109,352	921,439	99,125	292,253	0	165,248	0	132,034	208,477	1,510,974
FY11	88,984	749,004	89,107	282,269	0	267,520	0	116,850	178,091	1,415,643
FY10	88,921	860,977	88,994	276,736	0	160,435	0	113,611	177,915	1,411,759
FY09	88,572	860,977	83,210	276,736	0	77,235	0	77,878	171,783	1,292,826
FY08	191,831	707,377	84,521	520,708	0	77,235	0	42,575	276,352	1,347,895
FY07		686,775		266,940		74,985		41,368		1,070,068
FY06		518,661		420,540		74,985		42,426		1,056,612
FY05		388,616		173,590		70,825		59,770		692,800
FY04		485,344		258,556		61,267		46,006		851,173
TOTAL	**687,259**	**7,173,339**	**551,615**	**3,306,472**	**0**	**1,112,348**	**0**	**857,747**	**1,238,873**	**12,449,906**
FY08-13	**687,259**	**5,093,943**	**551,615**	**2,186,845**	**0**	**830,286**	**0**	**668,177**	**1,238,873**	**8,779,252**

CIVIL ENGINEERING (14.0801)

Faculty Salaries and Fringe Benefits

Fiscal Year	Tenured		Ten Track		NonTTrack		Grad Asst/Assoc		Total	
	FAMU	FSU	FAMU	FSU	FAMU	FSU	FAMU	FSU	FAMU	FSU
FY13	589,752	671,889	313,887	107,494	61,660	81,435	0	118,882	965,299	979,700
FY12	696,205	634,817	293,185	92,288	61,453	0	0	72,684	1,050,843	799,789
FY11	681,965	538,093	283,954	92,288	61,094	0	0	103,478	1,027,013	733,859
FY10	684,882	517,939	280,605	182,674	61,852	0	0	103,001	1,027,339	803,614
FY09	544,265	505,652	264,970	176,274	52,070	0	0	94,366	861,305	776,292
FY08	646,149	505,652	210,057	86,674	46,784	89,600	0	63,574	902,991	745,500
FY07		490,926		84,150		0		78,051		653,127
FY06		490,926		84,150		0		86,571		661,647
FY05		367,845		241,161		0		105,399		714,405
FY04		460,712		154,223		59,543		221,519		895,997
TOTAL	**3,843,218**	**5,184,452**	**1,646,658**	**1,301,376**	**344,914**	**230,578**	**0**	**1,047,525**	**5,834,790**	**7,763,931**
FY08-13	**3,843,218**	**3,374,043**	**1,646,658**	**737,692**	**344,914**	**171,035**	**0**	**555,985**	**5,834,790**	**4,838,755**

ELECTRICAL ENGINEERING (14.1001)

Faculty Salaries and Fringe Benefits

Fiscal Year	Tenured		Ten Track		NonTTrack		Grad Asst/Assoc		Total	
	FAMU	FSU	FAMU	FSU	FAMU	FSU	FAMU	FSU	FAMU	FSU
FY13	226,129	1,583,990	416,553	109,983	0	0	0	126,811	642,682	1,820,783
FY12	225,378	1,466,860	310,700	0	0	90,310	0	97,173	536,078	1,654,343
FY11	374,904	1,331,857	200,177	97,773	0	0	0	106,678	575,081	1,536,307
FY10	378,312	1,280,636	203,174	94,925	0	0	0	72,698	581,486	1,448,259
FY09	377,219	1,062,236	181,571	183,361	0	1,806,651	0	95,173	558,789	3,147,421
FY08	480,794	1,146,740	85,140	183,361	0	1,816,964	0	113,739	565,934	3,260,805
FY07		897,402		363,095		0		114,050		1,374,547
FY06		897,115		453,971		0		106,834		1,457,920
FY05		503,222		728,859		162,877		101,832		1,496,790
FY04		453,162		465,388		316,288		160,503		1,395,341
TOTAL	**2,062,736**	**10,623,219**	**1,397,315**	**2,680,716**	**0**	**4,193,091**	**0**	**1,095,491**	**3,460,051**	**18,592,516**
FY08-13	**2,062,736**	**7,872,319**	**1,397,315**	**669,403**	**0**	**3,713,925**	**0**	**612,272**	**3,460,051**	**12,867,919**

MECHANICAL ENGINEERING (14.1901)

Faculty Salaries and Fringe Benefits

Fiscal Year	Tenured		Ten Track		NonTTrack		Grad Asst/Assoc		Total	
	FAMU	FSU	FAMU	FSU	FAMU	FSU	FAMU	FSU	FAMU	FSU
FY13	328,768	1,839,343	0	418,426	0	352,841	0	137,367	328,768	2,747,977
FY12	326,549	1,869,185	0	404,873	0	161,428	0	173,431	326,549	2,608,918
FY11	319,410	1,600,330	0	202,063	0	261,268	0	113,108	319,410	2,176,770
FY10	327,757	1,025,010	0	286,093	0	345,281	0	99,110	327,757	1,755,494
FY09	314,973	1,532,074	0	286,093	0	261,445	0	183,929	314,973	2,263,541
FY08	320,035	1,399,057	0	377,350	0	338,245	0	100,331	320,035	2,214,983
FY07		1,486,481		469,972		234,496		106,344		2,297,293
FY06		1,082,472		373,807		234,496		114,745		1,805,520
FY05		1,237,541		188,687		302,514		117,355		1,846,097
FY04		1,059,059		290,988		202,403		141,609		1,694,058
TOTAL	**1,937,491**	**14,130,552**	**0**	**3,298,353**	**0**	**2,694,418**	**0**	**1,287,329**	**1,937,491**	**21,410,652**
FY08-13	**1,937,491**	**9,265,000**	**0**	**1,974,898**	**0**	**1,720,509**	**0**	**807,276**	**1,937,491**	**13,767,683**

INDUSTRIAL ENGINEERING (14.3501)

Faculty Salaries and Fringe Benefits

Fiscal Year	Tenured		Ten Track		NonTTrack		Grad Asst/Assoc		Total	
	FAMU	FSU	FAMU	FSU	FAMU	FSU	FAMU	FSU	FAMU	FSU
FY13	122,515	382,614	98,694	385,807	0	165,435	0	163,874	221,209	1,097,730
FY12	124,547	610,034	83,700	462,985	0	179,665	0	82,909	208,247	1,335,593
FY11	0	590,310	0	370,825	0	151,680	0	149,680	0	1,262,495
FY10	0	573,116	0	360,026	83,425	168,570	0	158,976	83,425	1,260,687
FY09	98,154	666,253	0	360,026	0	110,970	0	181,726	98,154	1,318,974
FY08	99,700	666,253	0	360,026	0	183,482	0	112,882	99,700	1,322,642
FY07		731,900		267,520		64,000		160,985		1,224,405
FY06		731,901		83,443		0		154,584		969,929
FY05		588,232		170,927		0		128,819		887,978
FY04		291,955		77,633		82,528		60,855		512,971
TOTAL	**444,917**	**5,832,568**	**182,394**	**2,899,218**	**83,425**	**1,106,328**	**0**	**1,355,290**	**710,736**	**11,193,405**
FY08-13	**444,917**	**3,488,580**	**182,394**	**2,299,694**	**83,425**	**959,800**	**0**	**850,047**	**710,736**	**7,598,121**

TOTAL JOINT COLLEGE OF ENGINEERING FACULTY

Faculty Salaries and Fringe Benefits

Fiscal Year	Tenured		Ten Track		NonTTrack		Grad Asst/Assoc		Total	
	FAMU	FSU	FAMU	FSU	FAMU	FSU	FAMU	FSU	FAMU	FSU
FY13	1,386,763	5,472,006	935,791	1,559,853	61,660	682,323	0	732,163	2,384,214	8,446,345
FY12	1,482,031	5,502,335	786,710	1,252,399	61,453	596,652	0	558,231	2,330,194	7,909,617
FY11	1,465,262	4,809,594	573,238	1,045,219	61,094	680,468	0	589,794	2,099,595	7,125,075
FY10	1,479,872	4,257,678	572,773	1,200,453	145,277	674,286	0	547,396	2,197,922	6,679,813
FY09	1,423,184	4,627,192	529,751	1,282,490	52,070	2,256,301	0	633,072	2,005,005	8,799,055
FY08	1,738,509	4,425,079	379,718	1,528,119	46,784	2,505,526	0	433,101	2,165,012	8,891,825
FY07	0	4,293,484	0	1,451,677	0	373,481	0	500,798	0	6,619,440
FY06	0	3,721,075	0	1,415,912	0	309,481	0	505,160	0	5,951,628
FY05	0	3,085,455	0	1,503,224	0	536,216	0	513,175	0	5,638,071
FY04	0	2,750,232	0	1,246,788	0	722,029	0	630,492	0	5,349,541
TOTAL	**8,975,621**	**42,944,131**	**3,777,981**	**13,486,134**	**428,339**	**9,336,763**	**0**	**5,643,382**	**13,181,941**	**71,410,409**
FY08-13	**8,975,621**	**29,093,884**	**3,777,981**	**7,868,532**	**428,339**	**7,395,556**	**0**	**3,493,757**	**13,181,941**	**47,851,729**

NOTE: The Biomedical and Computer Engineering faculty at FSU are associated with other primary budgets.

Source: FAMU and FSU Institutional Research

Prepared by CBT Consultants, September 2014 (2B)

NOTE: Administrative staff includes EEO Categories 3, 4 and 5

CHEMICAL ENGINEERING (14.0701)

Administrative Staff

Fiscal Year	Number		Salary and Fringe	
	FAMU	FSU	FAMU	FSU
FY13	1	2	43,407	111,631
FY12	0	2	21,250	103,950
FY11	1	2	35,250	103,950
FY10	0	2	35,666	100,922
FY09	1	2	28,811	107,322
FY08	1	2	28,399	102,804
FY07	1	2		100,298
FY06	1	2		99,205
FY05	0	2		94,092
FY04	0	2		90,821
TOTAL	**6**	**20**	**192,783**	**1,014,995**
FY08-13	**4**	**12**	**192,783**	**630,579**

CIVIL ENGINEERING (14.0801)

Administrative Staff

Number		Salary and Fringe	
FAMU	FSU	FAMU	FSU
2	0	149,517	0
3	3	148,992	185,964
3	0	132,065	0
3	0	178,433	0
4	5	131,675	291,885
4	4	168,426	238,332
4	4		232,520
4	0		0
3	0		0
3	0		0
33	**16**	**909,108**	**948,700**
19	**12**	**909,108**	**716,180**

ELECTRICAL ENGINEERING (14.1001)

Administrative Staff

Fiscal Year	Number		Salary and Fringe	
	FAMU	FSU	FAMU	FSU
FY13	4	1	144,270	47,382
FY12	3	1	143,582	45,590
FY11	3	1	134,503	45,590
FY10	3	1	84,390	44,262
FY09	3	1	80,242	44,262
FY08	4	1	161,613	44,262
FY07	4	1		43,182
FY06	4	1		41,923
FY05	3	1		37,787
FY04	2	1		33,158
TOTAL	**33**	**10**	**748,600**	**427,398**
FY08-13	**20**	**6**	**748,600**	**271,348**

MECHANICAL ENGINEERING (14.1901)

Administrative Staff

Number		Salary and Fringe	
FAMU	FSU	FAMU	FSU
2	3	106,249	165,248
1	2	47,005	105,626
1	2	44,467	105,626
1	2	44,991	102,548
1	2	41,670	102,548
1	2	41,376	102,548
1	2		100,049
1	2		98,961
0	2		93,860
0	3		139,237
9	**22**	**325,758**	**1,116,251**
7	**13**	**325,758**	**684,145**

INDUSTRIAL ENGINEERING (14.3501)

Administrative Staff

Fiscal Year	Number		Salary and Fringe	
	FAMU	FSU	FAMU	FSU
FY13	2	1	114,053	363,087
FY12	4	1	113,498	268,951
FY11	4	1	110,167	264,207
FY10	4	1	109,769	256,513
FY09	3	1	103,305	253,953
FY08	3	1	101,829	253,953
FY07	2	1		187,817
FY06	2	1		204,229
FY05	2	1		183,956
FY04	3	1		62,115
TOTAL	**29**	**10**	**652,621**	**2,298,783**
FY08-13	**20**	**6**	**652,621**	**1,660,666**

DEAN'S OFFICE

Administrative Staff

Number		Salary and Fringe	
FAMU	FSU	FAMU	FSU
0	15	45,107	814,323
0	16	43,002	831,123
1	17	48,125	963,182
1	16	47,826	870,982
1	12	43,218	633,172
1	14	42,601	732,100
1	15		740,832
2	17		833,755
1	13		605,347
1	16		749,271
9	**151**	**269,879**	**7,774,088**
4	**90**	**269,879**	**4,844,883**

Fiscal Year	COMPUTER FACILITIES			
	Administrative Staff			
	Number		Salary and Fringe	
	FAMU	FSU	FAMU	FSU
FY13	2		93,991	
FY12	2		92,355	
FY11	2		89,383	
FY10	2		91,017	
FY09	2		94,106	
FY08	2		92,761	
FY07	2			
FY06	2			
FY05	1			
FY04	0			
TOTAL	**17**	**0**	**553,613**	**0**
FY08-13	**12**	**0**	**553,613**	**0**

	OTHER			
	Administrative Staff			
	Number		Salary and Fringe	
	FAMU	FSU	FAMU	FSU
	5		248,458	
	7		361,501	
	5		312,714	
	6		286,104	
	8		340,027	
	8		336,363	
	8			
	8			
	8			
	8			
	71	**0**	**1,885,167**	**0**
	39	**0**	**1,885,167**	**0**

Fiscal Year	TOTAL ADMINISTRATIVE STAFF			
	Administrative Staff			
	Number		Salary and Fringe	
	FAMU	FSU	FAMU	FSU
FY13	18	22	945,052	1,501,672
FY12	20	25	971,185	1,541,203
FY11	20	23	906,674	1,482,555
FY10	20	22	878,196	1,375,228
FY09	23	23	863,054	1,433,143
FY08	24	24	973,368	1,474,001
FY07	23	25	0	1,404,698
FY06	24	23	0	1,278,072
FY05	18	19	0	1,015,041
FY04	17	23	0	1,074,602
TOTAL	**207**	**229**	**5,537,529**	**13,580,215**
FY08-13	**125**	**139**	**5,537,529**	**8,807,802**

Source: FAMU and FSU Institutional Research

Prepared by CBT Consultants, September 2014 (2B)

Table 2BC	FAMU-FSU Joint College of Engineering Study Faculty in the Joint College of Engineering	RFP #2BC

	DEAN'S OFFICE POSITIONS IN THE JOINT COLLEGE													
	Full-Time Dean's Office						Part-Time Dean's Office							
Fiscal Year	Tenured		Ten Track		NonTTrack		Tenured		Ten Track		NonTTrack		Grad Assts	
	FAMU	FSU	FAMU	FSU	FAMU	FSU	FAMU	FSU	FAMU	FSU	FAMU	FSU	FAMU	FSU
FY13	0	0	0	0	0	3	0	0	0	0	0	3	0	1
FY12	0	0	0	0	0	3	0	0	0	0	0	1	0	6
FY11	0	1	0	0	0	2	0	0	0	0	0	1	0	2
FY10	0	0	0	0	0	2	0	0	0	0	0	1	2	9
FY09	0	1	0	0	0	2	0	0	0	0	0	1	2	6
FY08	0	0	0	0	0	2	0	0	0	0	0	1	2	4
FY07	0	2	0	1	0	6	0	0	0	0	0	2	0	3
FY06	0	0	0	0	0	1	0	0	0	0	0	2	0	4
FY05	0	0	0	0	0	3	0	0	0	0	0	1	0	3
FY04	0	0	0	0	0	2	0	0	0	0	0	0	0	0
TOTAL	**0**	**4**	**0**	**1**	**0**	**26**	**0**	**0**	**0**	**0**	**0**	**13**	**6**	**38**

Table 2BC	FAMU-FSU Joint College of Engineering Study Faculty in the Joint College of Engineering	RFP #2BC

	DEAN'S OFFICE POSITIONS IN THE JOINT COLLEGE									
	Dean's Office Salaries and Fringe Benefits									
Fiscal Year	Tenured		Ten Track		NonTTrack		Grad Asst/Assoc		Total	
	FAMU	FSU	FAMU	FSU	FAMU	FSU	FAMU	FSU	FAMU	FSU
FY13		0		0		296,850		5,389		302,239
FY12		0		0		285,586		30,792		316,378
FY11		96,724		0		196,035		18,381		311,140
FY10		0		0		183,770		56,365		240,135
FY09		108,933		0		177,810		37,946		324,689
FY08		0		0		177,810		29,320		207,130
FY07		235,698		83,442		598,397		20,392		937,929
FY06		0		0		114,775		19,314		134,089
FY05		0		0		246,566		21,373		267,939
FY04		0		0		131,759		0		131,759
TOTAL	**0**	**441,356**	**0**	**83,442**	**0**	**2,409,358**	**0**	**239,272**	**0**	**3,173,428**

Table 2BC

FAMU-FSU Joint College of Engineering Study
Administrative Staff in the Joint College of Engineering

RFP #2BC

NOTE: Administrative staff includes EEO Categories 3, 4 and 5

CHEMICAL ENGINEERING (14.0701)

Fiscal Year	Faculty Vacancies – Number FAMU	Faculty Vacancies – Number FSU	Faculty Vacancies – Salary and Fringe FAMU	Faculty Vacancies – Salary and Fringe FSU	Administrative Vacancies – Number FAMU	Administrative Vacancies – Number FSU	Administrative Vacancies – Salary and Fringe FAMU	Administrative Vacancies – Salary and Fringe FSU
FY13	0	2	0	83,793		0	43,407	0
FY12	0	5	0	348,449		0	25,000	0
FY11	0	4	0	253,393		0		0
FY10	0	5	0	343,764		0		0
FY09	0	5	0	343,764		0		0
FY08	4	4	229,146	253,393		0		0
FY07		5		342,993		0		0
FY06		3		174,792		0		0
FY05		3		174,792		0		0
FY04		2		130,816		0		0
TOTAL	**4**	**38**	**229,146**	**2,449,948**	**0**	**0**	**68,407**	**0**
FY08-13	**4**	**25**	**229,146**	**1,626,556**				

CIVIL ENGINEERING (14.0801)

Fiscal Year	Faculty Vacancies – Number FAMU	Faculty Vacancies – Number FSU	Faculty Vacancies – Salary and Fringe FAMU	Faculty Vacancies – Salary and Fringe FSU	Administrative Vacancies – Number FAMU	Administrative Vacancies – Number FSU	Administrative Vacancies – Salary and Fringe FAMU	Administrative Vacancies – Salary and Fringe FSU
FY13	0	12	0	877,009		0	55,882	0
FY12	1	16	88,200	1,074,762		0	0	0
FY11	0	10	0	753,830		0	27,555	0
FY10	0	10	0	753,830		0	0	0
FY09	1	10	99,456	753,830		0	39,192	0
FY08	0	10	0	753,830		0		0
FY07		11		841,943		0		0
FY06		10		753,830		0		0
FY05		8		624,550		0		0
FY04		14		1,099,140		0		0
TOTAL	**2**	**111**	**187,656**	**8,286,556**	**0**	**0**	**122,629**	**0**
FY08-13	**2**	**68**	**187,656**	**4,967,092**				

ELECTRICAL ENGINEERING (14.1001)

Fiscal Year	Faculty Vacancies – Number FAMU	Faculty Vacancies – Number FSU	Faculty Vacancies – Salary and Fringe FAMU	Faculty Vacancies – Salary and Fringe FSU	Administrative Vacancies – Number FAMU	Administrative Vacancies – Number FSU	Administrative Vacancies – Salary and Fringe FAMU	Administrative Vacancies – Salary and Fringe FSU
FY13	0	2	0	151,963		0	94,735	0
FY12	1	6	114,750	484,756		0	27,811	0
FY11	1	9	92,737	782,708		0	33,840	0
FY10	0	9	0	782,708		0	48,135	0
FY09	1	9	96,121	782,708		0	83,375	0
FY08	6	9	443,923	782,708		0		0
FY07		8		757,903		0		0
FY06		3		272,946		0		0
FY05		2		108,445		0		0
FY04		3		180,836		0		0
TOTAL	**9**	**60**	**747,531**	**5,087,684**	**0**	**0**	**287,896**	**0**
FY08-13	**9**	**44**	**747,531**	**3,767,553**				

Source: FAMU and FSU Institutional Research

Prepared by CBT Consultants, September 2014 (2B)

MECHANICAL ENGINEERING (14.1901)

Fiscal Year	Faculty Vacancies				Administrative Vacancies			
	Number		Salary and Fringe		Number		Salary and Fringe	
	FAMU	FSU	FAMU	FSU	FAMU	FSU	FAMU	FSU
FY13	1	11	87,173	607,931		1		59,328
FY12	1	14	87,173	874,383	1	0	25,527	0
FY11	2	15	110,949	1,188,188		1		61,440
FY10	0	12	0	968,772		0		0
FY09	0	11	0	866,756		1		46,083
FY08	0	8	0	523,822		1		46,083
FY07		6		284,230		1		46,083
FY06		3		87,039		0		0
FY05		4		151,039		0		0
FY04		2		98,857		0		0
TOTAL	**4**	**86**	**285,294**	**5,651,017**	**1**	**5**	**25,527**	**259,016**
FY08-13	**4**	**71**	**285,294**	**5,029,852**				

INDUSTRIAL ENGINEERING (14.3501)

Fiscal Year	Faculty Vacancies				Administrative Vacancies			
	Number		Salary and Fringe		Number		Salary and Fringe	
	FAMU	FSU	FAMU	FSU	FAMU	FSU	FAMU	FSU
FY13	0	5	0	655,830		2		80,205
FY12		3	0	339,907		2		80,205
FY11		4	78,120	384,376		2		80,205
FY10		4	83,528	372,854		2		80,205
FY09		3	83,528	288,376		2		80,205
FY08		2	151,800	203,896		1		30,285
FY07		3		299,896		1		68,579
FY06		2		166,799		0		0
FY05		2		229,485		0		0
FY04		1		78,080		0		0
TOTAL	**0**	**29**	**396,976**	**3,019,500**	**0**	**12**	**0**	**499,887**
FY08-13	**0**	**21**	**396,976**	**2,245,239**				

DEAN'S OFFICE

Fiscal Year	Faculty Vacancies				Administrative Vacancies			
	Number		Salary and Fringe		Number		Salary and Fringe	
	FAMU	FSU	FAMU	FSU	FAMU	FSU	FAMU	FSU
FY13		3		230,460		4		195,845
FY12		3		230,460		3		167,855
FY11		4		491,199		1		30,751
FY10		3		230,460		3		108,001
FY09		3		230,460		4		167,816
FY08		3		230,460		2		75,700
FY07		3		230,460		3		109,194
FY06		3		230,460		1		32,000
FY05		3		230,460		1		40,564
FY04		1		83,200		2		72,138
TOTAL	**0**	**29**	**0**	**2,418,080**	**0**	**24**	**0**	**999,866**
FY08-13	**0**	**19**	**0**	**1,643,500**	**0**	**17**	**0**	**745,969**

Source: FAMU and FSU Institutional Research

	OTHER VACANCIES							
	Faculty Vacancies				Administrative Vacancies			
Fiscal Year	Number		Salary and Fringe		Number		Salary and Fringe	
	FAMU	FSU	FAMU	FSU	FAMU	FSU	FAMU	FSU
FY13							79,282	
FY12							98,588	
FY11							109,349	
FY10							124,191	
FY09							82,513	
FY08							117,279	
FY07								
FY06								
FY05								
FY04								
TOTAL	**0**	**0**	**0**	**0**	**0**	**0**	**611,202**	**0**
FY08-13	**0**	**0**	**0**	**0**	**0**	**0**	**611,202**	**0**

FLORIDA A&M UNIVERSITY
CHEMICAL ENGINEERING UNDERGRADUATE HEADCOUNT ENROLLMENT

Undergraduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Fall 2004	19	15	0	0	32	0	0	2	0	0	0	34
Fall 2005	13	10	0	1	20	0	0	2	0	0	0	23
Fall 2006	11	5	0	1	14	0	0	1	0	0	0	16
Fall 2007	6	7	0	0	11	0	0	2	0	0	0	13
Fall 2008	8	6	0	0	13	0	0	1	0	0	0	14
Fall 2009	14	6	0	0	19	0	0	1	0	0	0	20
Fall 2010	11	11	0	0	18	0	0	3	0	0	1	22
Fall 2011	20	27	0	0	40	0	0	2	0	0	5	47
Fall 2012	22	25	0	0	39	0	0	4	0	0	4	47
Fall 2013	24	19	0	0	37	0	1	4	0	0	1	43
10-Year Total	148	131	0	2	243	0	1	22	0	0	11	279
10-Year Change	5	4	0	0	5	0	1	2	0	0	1	9
10-Year % Change	26%	27%	n/a	n/a	16%	n/a	n/a	100%	n/a	n/a	n/a	26%
Projection totals may not foot due to rounding.												
Fall 2014 (Preliminary)	11	34	0	0	39	0	0	4	0	0	2	45
Fall 2015 (Projected)	12	38	0	0	44	0	0	4	0	0	2	50
Fall 2016 (Projected)	14	41	0	0	48	0	0	4	0	0	2	55
Fall 2017 (Projected)	15	45	0	0	52	0	0	5	0	0	2	60
Fall 2018 (Projected)	16	49	0	0	57	0	0	5	0	0	3	65
Fall 2019 (Projected)	17	50	0	0	58	0	0	5	0	0	3	67
15-Year Projected Total	233	388	0	4	541	0	2	49	0	0	24	621
15-Year Projected Change	-2	35	0	0	26	0	0	3	0	0	3	33
15-Yr Projected % Change	-11%	233%	n/a	n/a	82%	n/a	n/a	164%	n/a	n/a	n/a	97%

Enrollment data provided by Jason Jones, State University System of Florida

Projections provided by Rick Burnett of FSU and Kwadwo Owusu-Aduemiri of FAMU

Report prepared by CBT Consultants

Table 2D	FAMU-FSU Joint College of Engineering Study Headcount Enrollment in Engineering Programs at FAMU and FSU By Gender, Race/Ethnicity, and Degree Level for Fall 2003 through Fall 2019 (Projected)	RFP #2D

FLORIDA A&M UNIVERSITY
CHEMICAL ENGINEERING GRADUATE HEADCOUNT ENROLLMENT

Undergraduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Fall 2004	0	3	0	0	2	0	0	1	0	0	0	3
Fall 2005	0	2	0	0	2	0	0	0	0	0	0	2
Fall 2006	0	1	0	0	1	0	0	0	0	0	0	1
Fall 2007	0	1	0	0	1	0	0	0	0	0	0	1
Fall 2008	0	1	0	0	1	0	0	0	0	0	0	1
Fall 2009	2	1	0	0	3	0	0	0	0	0	0	3
Fall 2010	3	0	0	0	3	0	0	0	0	0	0	3
Fall 2011	3	1	0	0	3	0	0	1	0	0	0	4
Fall 2012	2	0	0	0	1	0	0	1	0	0	0	2
Fall 2013	0	1	0	0	1	0	0	0	0	0	0	1
10-Year Total	10	11	0	0	18	0	0	3	0	0	0	21
10-Year Change	0	-2	0	0	-1	0	0	-1	0	0	0	-2
10-Year % Change	n/a	-67%	n/a	n/a	-50%	n/a	n/a	n/a	n/a	n/a	n/a	-67%
Projection totals may not foot due to rounding.												
Fall 2014 (Preliminary)	0	1	0	0	1	0	0	0	0	0	0	1
Fall 2015 (Projected)	1	1	0	0	2	0	0	0	0	0	0	2
Fall 2016 (Projected)	1	1	0	0	2	0	0	0	0	0	0	2
Fall 2017 (Projected)	1	2	0	0	3	0	0	0	0	0	0	3
Fall 2018 (Projected)	1	2	0	0	3	0	0	0	0	0	0	3
Fall 2019 (Projected)	1	2	0	0	3	0	0	0	0	0	0	3
15-Year Projected Total	17	18	0	0	30	0	0	5	0	0	0	35
15-Year Projected Change	1	-1	0	0	1	0	0	-1	0	0	0	0
15-Yr Projected % Change	n/a	-48%	n/a	n/a	29%	n/a	n/a	-57%	n/a	n/a	n/a	0%

Enrollment data provided by Jason Jones, State University System of Florida

Projections provided by Rick Burnett of FSU and Kwadwo Owusu-Aduemiri of FAMU

Report prepared by CBT Consultants

Table 2D	FAMU-FSU Joint College of Engineering Study Headcount Enrollment in Engineering Programs at FAMU and FSU By Gender, Race/Ethnicity, and Degree Level for Fall 2003 through Fall 2019 (Projected)	RFP #2D

FLORIDA A&M UNIVERSITY
CHEMICAL ENGINEERING TOTAL HEADCOUNT ENROLLMENT

Undergraduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Fall 2004	19	18	0	0	34	0	0	3	0	0	0	37
Fall 2005	13	12	0	1	22	0	0	2	0	0	0	25
Fall 2006	11	6	0	1	15	0	0	1	0	0	0	17
Fall 2007	6	8	0	0	12	0	0	2	0	0	0	14
Fall 2008	8	7	0	0	14	0	0	1	0	0	0	15
Fall 2009	16	7	0	0	22	0	0	1	0	0	0	23
Fall 2010	14	11	0	0	21	0	0	3	0	0	1	25
Fall 2011	23	28	0	0	43	0	0	3	0	0	5	51
Fall 2012	24	25	0	0	40	0	0	5	0	0	4	49
Fall 2013	24	20	0	0	38	0	1	4	0	0	1	44
10-Year Total	158	142	0	2	261	0	1	25	0	0	11	300
10-Year Change	5	2	0	0	4	0	1	1	0	0	1	7
10-Year % Change	26%	11%	n/a	n/a	12%	n/a	n/a	33%	n/a	n/a	n/a	19%
Projection totals may not foot due to rounding.												
Fall 2014 (Preliminary)	11	35	0	0	40	0	0	4	0	0	2	46
Fall 2015 (Projected)	13	39	0	0	45	0	0	4	0	0	2	52
Fall 2016 (Projected)	15	42	0	0	50	0	0	5	0	0	2	57
Fall 2017 (Projected)	16	47	0	0	55	0	0	5	0	0	2	63
Fall 2018 (Projected)	17	51	0	0	59	0	0	6	0	0	3	68
Fall 2019 (Projected)	18	52	0	0	61	0	0	6	0	0	3	70
15-Year Projected Total	250	406	0	4	571	0	2	54	0	0	24	656
15-Year Projected Change	-1	34	0	0	27	0	0	3	0	0	3	33
15-Yr Projected % Change	-3%	187%	n/a	n/a	79%	n/a	n/a	90%	n/a	n/a	n/a	89%

Enrollment data provided by Jason Jones, State University System of Florida

Projections provided by Rick Burnett of FSU and Kwadwo Owusu-Aduemiri of FAMU

Report prepared by CBT Consultants

FLORIDA STATE UNIVERSITY
CHEMICAL ENGINEERING UNDERGRADUATE HEADCOUNT ENROLLMENT

Undergraduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Fall 2004	36	63	0	6	10	0	19	3	0	1	60	99
Fall 2005	32	42	0	7	11	0	15	2	0	0	39	74
Fall 2006	31	49	0	8	13	0	14	7	0	0	38	80
Fall 2007	35	55	0	8	20	0	16	7	0	0	39	90
Fall 2008	42	63	0	6	16	0	15	8	0	0	60	105
Fall 2009	48	69	0	8	15	0	23	7	0	1	63	117
Fall 2010	42	74	0	12	8	0	21	4	0	3	68	116
Fall 2011	43	90	0	10	8	0	24	6	1	4	80	133
Fall 2012	55	115	0	10	10	0	27	6	1	4	112	170
Fall 2013	70	148	0	11	16	0	43	9	7	5	127	218
10-Year Total	434	768	0	86	127	0	217	59	9	18	686	1202
10-Year Change	34	85	0	5	6	0	24	6	7	4	67	119
10-Year % Change	94%	135%	n/a	83%	60%	n/a	126%	200%	n/a	400%	112%	120%
Projection totals may not foot due to rounding.												
Fall 2014 (Preliminary)	71	149	0	11	16	0	43	9	7	5	128	220
Fall 2015 (Projected)	71	151	0	11	16	0	44	9	7	5	130	222
Fall 2016 (Projected)	72	152	0	11	16	0	44	9	7	5	131	225
Fall 2017 (Projected)	73	154	0	11	17	0	45	9	7	5	132	227
Fall 2018 (Projected)	74	156	0	12	17	0	45	9	7	5	133	229
Fall 2019 (Projected)	74	157	0	12	17	0	46	10	7	5	135	231
15-Year Projected Total	869	1687	0	154	226	0	484	114	51	48	1475	2556
15-Year Projected Change	38	94	0	6	7	0	27	7	7	4	75	132
15-Yr Projected % Change	106%	149%	n/a	100%	70%	n/a	142%	233%	n/a	400%	125%	133%

Enrollment data provided by Jason Jones, State University System of Florida

Projections provided by Rick Burnett of FSU and Kwadwo Owusu-Aduemiri of FAMU

Report prepared by CBT Consultants

Table 2D	FAMU-FSU Joint College of Engineering Study Headcount Enrollment in Engineering Programs at FAMU and FSU By Gender, Race/Ethnicity, and Degree Level for Fall 2003 through Fall 2019 (Projected)	RFP #2D

FLORIDA STATE UNIVERSITY
CHEMICAL ENGINEERING GRADUATE HEADCOUNT ENROLLMENT

Undergraduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Fall 2004	7	11	0	1	0	0	0	14	0	0	3	18
Fall 2005	8	11	0	2	0	0	1	13	0	0	3	19
Fall 2006	6	7	0	0	0	0	0	12	0	0	1	13
Fall 2007	3	8	0	0	1	0	0	10	0	0	0	11
Fall 2008	2	8	0	0	1	0	0	8	0	0	1	10
Fall 2009	5	9	0	1	0	0	0	10	0	0	3	14
Fall 2010	3	9	0	1	0	0	0	8	0	0	3	12
Fall 2011	6	13	0	1	0	0	0	13	0	0	5	19
Fall 2012	5	13	0	1	0	0	0	12	0	0	5	18
Fall 2013	5	13	0	1	0	0	0	13	0	1	3	18
10-Year Total	50	102	0	8	2	0	1	113	0	1	27	152
10-Year Change	-2	2	0	0	0	0	0	-1	0	1	0	0
10-Year % Change	-29%	18%	n/a	n/a	n/a	n/a	n/a	-7%	n/a	n/a	0%	0%
Projection totals may not foot due to rounding.												
Fall 2014 (Preliminary)	5	13	0	1	0	0	0	13	0	0	4	19
Fall 2015 (Projected)	6	14	0	1	0	0	0	13	0	0	5	19
Fall 2016 (Projected)	6	14	0	1	0	0	0	13	0	1	5	19
Fall 2017 (Projected)	6	14	0	1	0	0	0	14	0	0	5	20
Fall 2018 (Projected)	6	14	0	1	0	0	0	14	0	1	5	20
Fall 2019 (Projected)	6	15	0	1	0	0	0	14	0	1	5	21
15-Year Projected Total	85	186	0	14	2	0	1	194	0	4	56	270
15-Year Projected Change	-1	4	0	0	0	0	0	0	0	1	2	3
15-Yr Projected % Change	-14%	36%	n/a	n/a	n/a	n/a	n/a	0%	n/a	n/a	n/a	17%

Enrollment data provided by Jason Jones, State University System of Florida

Projections provided by Rick Burnett of FSU and Kwadwo Owusu-Aduemiri of FAMU

Report prepared by CBT Consultants

Table 2D	FAMU-FSU Joint College of Engineering Study Headcount Enrollment in Engineering Programs at FAMU and FSU By Gender, Race/Ethnicity, and Degree Level for Fall 2003 through Fall 2019 (Projected)	RFP #2D

FLORIDA STATE UNIVERSITY
CHEMICAL ENGINEERING TOTAL HEADCOUNT ENROLLMENT

Undergraduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Fall 2004	43	74	0	7	10	0	19	17	0	1	63	117
Fall 2005	40	53	0	9	11	0	16	15	0	0	42	93
Fall 2006	37	56	0	8	13	0	14	19	0	0	39	93
Fall 2007	38	63	0	8	21	0	16	17	0	0	39	101
Fall 2008	44	71	0	6	17	0	15	16	0	0	61	115
Fall 2009	53	78	0	9	15	0	23	17	0	1	66	131
Fall 2010	45	83	0	13	8	0	21	12	0	3	71	128
Fall 2011	49	103	0	11	8	0	24	19	1	4	85	152
Fall 2012	60	128	0	11	10	0	27	18	1	4	117	188
Fall 2013	75	161	0	12	16	0	43	22	7	6	130	236
10-Year Total	484	870	0	94	129	0	218	172	9	19	713	1354
10-Year Change	32	87	0	5	6	0	24	5	7	5	67	119
10-Year % Change	74%	118%	n/a	71%	60%	n/a	126%	29%	n/a	500%	106%	102%
Projection totals may not foot due to rounding.												
Fall 2014 (Preliminary)	76	162	0	12	16	0	43	22	7	5	132	238
Fall 2015 (Projected)	77	165	0	12	16	0	44	22	7	5	135	242
Fall 2016 (Projected)	78	166	0	12	16	0	44	22	7	6	136	244
Fall 2017 (Projected)	79	168	0	12	17	0	45	23	7	5	137	247
Fall 2018 (Projected)	80	170	0	13	17	0	45	23	7	6	138	250
Fall 2019 (Projected)	80	172	0	13	17	0	46	24	7	6	140	253
15-Year Projected Total	954	1873	0	168	228	0	485	308	51	52	1531	2825
15-Year Projected Change	37	98	0	6	7	0	27	7	7	5	77	136
15-Yr Projected % Change	86%	132%	n/a	86%	70%	n/a	142%	41%	n/a	500%	122%	116%

Enrollment data provided by Jason Jones, State University System of Florida

Projections provided by Rick Burnett of FSU and Kwadwo Owusu-Aduemiri of FAMU

Report prepared by CBT Consultants

FLORIDA A&M UNIVERSITY
CIVIL ENGINEERING UNDERGRADUATE HEADCOUNT ENROLLMENT

Undergraduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Fall 2004	59	194	0	2	231	0	1	11	0	0	8	253
Fall 2005	61	206	0	1	244	0	1	11	0	0	10	267
Fall 2006	54	216	0	4	256	0	0	2	0	0	8	270
Fall 2007	59	242	2	4	274	0	3	7	0	0	11	301
Fall 2008	73	291	4	2	333	0	9	9	0	0	7	364
Fall 2009	75	297	2	2	345	0	8	7	0	0	8	372
Fall 2010	94	315	4	4	375	0	4	4	0	0	18	409
Fall 2011	24	112	3	1	122	0	1	4	0	0	5	136
Fall 2012	19	80	1	0	92	0	0	4	0	0	2	99
Fall 2013	19	47	0	0	62	0	0	1	0	0	3	66
10-Year Total	537	2000	16	20	2334	0	27	60	0	0	80	2537
10-Year Change	-40	-147	0	-2	-169	0	-1	-10	0	0	-5	-187
10-Year % Change	-68%	-76%	n/a	-100%	-73%	n/a	-100%	-91%	n/a	n/a	-63%	-74%
Projection totals may not foot due to rounding.												
Fall 2014 (Preliminary)	16	49	0	1	60	0	1	2	0	0	2	65
Fall 2015 (Projected)	17	53	0	1	64	0	1	2	0	0	2	70
Fall 2016 (Projected)	19	56	0	1	69	0	1	2	0	0	2	75
Fall 2017 (Projected)	20	60	1	1	74	0	1	2	0	0	3	80
Fall 2018 (Projected)	21	64	1	1	78	0	1	2	0	0	3	85
Fall 2019 (Projected)	22	65	1	1	80	0	1	2	0	0	3	87
15-Year Projected Total	652	2347	19	24	2759	0	32	71	0	0	95	2999
15-Year Projected Change	-37	-129	1	-1	-151	0	0	-9	0	0	-5	-166
15-Yr Projected % Change	-63%	-66%	n/a	-66%	-65%	n/a	-7%	-81%	n/a	n/a	-66%	-66%

Enrollment data provided by Jason Jones, State University System of Florida

Projections provided by Rick Burnett of FSU and Kwadwo Owusu-Aduemiri of FAMU

Report prepared by CBT Consultants

Table 2D	FAMU-FSU Joint College of Engineering Study Headcount Enrollment in Engineering Programs at FAMU and FSU By Gender, Race/Ethnicity, and Degree Level for Fall 2003 through Fall 2019 (Projected)	RFP #2D

FLORIDA A&M UNIVERSITY

CIVIL ENGINEERING GRADUATE HEADCOUNT ENROLLMENT

Undergraduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Fall 2004	3	11	0	1	6	0	0	6	0	0	1	14
Fall 2005	2	7	0	0	5	0	1	3	0	0	0	9
Fall 2006	0	7	0	0	6	0	0	1	0	0	0	7
Fall 2007	0	3	0	0	3	0	0	0	0	0	0	3
Fall 2008	1	3	0	0	2	0	0	2	0	0	0	4
Fall 2009	3	2	0	0	3	0	0	2	0	0	0	5
Fall 2010	6	3	0	0	7	0	0	1	0	0	1	9
Fall 2011	7	4	0	1	6	0	0	2	1	0	1	11
Fall 2012	7	3	0	0	8	0	0	2	0	0	0	10
Fall 2013	6	2	0	0	7	0	0	1	0	0	0	8
10-Year Total	35	45	0	2	53	0	1	20	1	0	3	80
10-Year Change	3	-9	0	-1	1	0	0	-5	0	0	-1	-6
10-Year % Change	100%	-82%	n/a	-100%	17%	n/a	n/a	-83%	n/a	n/a	-100%	-43%
Projection totals may not foot due to rounding.												
Fall 2014 (Preliminary)	4	6	0	0	7	0	0	3	0	0	0	10
Fall 2015 (Projected)	6	7	0	0	9	0	0	3	0	0	0	13
Fall 2016 (Projected)	7	10	0	0	11	0	0	4	0	0	1	17
Fall 2017 (Projected)	9	11	0	1	13	0	0	5	0	0	1	20
Fall 2018 (Projected)	10	13	0	1	15	0	0	6	0	0	1	23
Fall 2019 (Projected)	12	15	0	1	18	0	0	7	0	0	1	27
15-Year Projected Total	83	107	0	5	126	0	2	48	2	0	7	190
15-Year Projected Change	9	4	0	0	12	0	0	1	0	0	0	13
15-Yr Projected % Change	294%	38%	n/a	-33%	198%	n/a	n/a	13%	n/a	n/a	1%	93%

Enrollment data provided by Jason Jones, State University System of Florida

Projections provided by Rick Burnett of FSU and Kwadwo Owusu-Aduemiri of FAMU

Report prepared by CBT Consultants

Table 2D — **FAMU-FSU Joint College of Engineering Study** — **RFP #2D**

Headcount Enrollment in Engineering Programs at FAMU and FSU

By Gender, Race/Ethnicity, and Degree Level for Fall 2003 through Fall 2019 (Projected)

FLORIDA A&M UNIVERSITY

CIVIL ENGINEERING TOTAL HEADCOUNT ENROLLMENT

Undergraduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Fall 2004	62	205	0	3	237	0	1	17	0	0	9	267
Fall 2005	63	213	0	1	249	0	2	14	0	0	10	276
Fall 2006	54	223	0	4	262	0	0	3	0	0	8	277
Fall 2007	59	245	2	4	277	0	3	7	0	0	11	304
Fall 2008	74	294	4	2	335	0	9	11	0	0	7	368
Fall 2009	78	299	2	2	348	0	8	9	0	0	8	377
Fall 2010	100	318	4	4	382	0	4	5	0	0	19	418
Fall 2011	31	116	3	2	128	0	1	6	1	0	6	147
Fall 2012	26	83	1	0	100	0	0	6	0	0	2	109
Fall 2013	25	49	0	0	69	0	0	2	0	0	3	74
10-Year Total	572	2045	16	22	2387	0	28	80	1	0	83	2617
10-Year Change	-37	-156	0	-3	-168	0	-1	-15	0	0	-6	-193
10-Year % Change	-60%	-76%	n/a	-100%	-71%	n/a	-100%	-88%	n/a	n/a	-67%	-72%
Projection totals may not foot due to rounding.												
Fall 2014 (Preliminary)	20	55	0	1	66	0	1	4	0	0	2	75
Fall 2015 (Projected)	23	60	0	1	73	0	1	5	0	0	3	83
Fall 2016 (Projected)	26	66	0	1	80	0	1	6	0	0	3	92
Fall 2017 (Projected)	29	71	1	1	87	0	1	7	0	0	3	100
Fall 2018 (Projected)	31	77	1	1	93	0	1	8	0	0	4	108
Fall 2019 (Projected)	34	80	1	1	98	0	1	9	0	0	4	114
15-Year Projected Total	735	2454	19	28	2885	0	34	118	2	0	102	3189
15-Year Projected Change	-28	-125	1	-2	-139	0	0	-8	0	0	-5	-153
15-Yr Projected % Change	-45%	-61%	n/a	-55%	-59%	n/a	26%	-48%	n/a	n/a	-58%	-57%

Enrollment data provided by Jason Jones, State University System of Florida

Projections provided by Rick Burnett of FSU and Kwadwo Owusu-Aduemiri of FAMU

Report prepared by CBT Consultants

FLORIDA STATE UNIVERSITY
CIVIL ENGINEERING UNDERGRADUATE HEADCOUNT ENROLLMENT

Undergraduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Fall 2004	61	189	3	12	22	0	31	2	0	4	176	250
Fall 2005	66	167	2	9	19	0	27	1	0	3	172	233
Fall 2006	59	169	3	8	18	0	20	4	0	3	172	228
Fall 2007	73	186	2	12	20	0	23	5	0	3	194	259
Fall 2008	66	190	2	12	13	0	24	8	0	2	195	256
Fall 2009	71	235	2	11	23	0	26	9	0	0	235	306
Fall 2010	63	215	2	4	24	0	31	7	0	2	208	278
Fall 2011	64	210	3	5	22	0	33	6	4	3	198	274
Fall 2012	54	191	1	9	13	0	30	6	4	4	178	245
Fall 2013	63	182	1	6	13	1	23	9	4	3	185	245
10-Year Total	640	1934	21	88	187	1	268	57	12	27	1913	2574
10-Year Change	2	-7	-2	-6	-9	1	-8	7	4	-1	9	-5
10-Year % Change	3%	-4%	-67%	-50%	-41%	n/a	-26%	350%	n/a	-25%	5%	-2%
Projection totals may not foot due to rounding.												
Fall 2014 (Preliminary)	64	184	0	7	13	0	23	9	5	3	187	247
Fall 2015 (Projected)	64	186	0	7	13	0	23	9	5	3	189	250
Fall 2016 (Projected)	65	188	0	7	13	0	24	9	5	3	191	252
Fall 2017 (Projected)	66	189	0	7	14	0	24	9	5	3	193	255
Fall 2018 (Projected)	66	191	0	7	14	0	24	9	5	3	194	257
Fall 2019 (Projected)	67	193	0	7	14	0	24	10	5	3	196	260
15-Year Projected Total	1032	3065	21	130	268	1	410	112	42	45	3063	4095
15-Year Projected Change	6	4	-3	-5	-8	0	-7	8	5	-1	20	10
15-Yr Projected % Change	10%	2%	-100%	-42%	-36%	n/a	-23%	400%	n/a	-25%	11%	4%

Enrollment data provided by Jason Jones, State University System of Florida

Projections provided by Rick Burnett of FSU and Kwadwo Owusu-Aduemiri of FAMU

Report prepared by CBT Consultants

Table 2D — **FAMU-FSU Joint College of Engineering Study** — **RFP #2D**

Headcount Enrollment in Engineering Programs at FAMU and FSU

By Gender, Race/Ethnicity, and Degree Level for Fall 2003 through Fall 2019 (Projected)

FLORIDA STATE UNIVERSITY

CIVIL ENGINEERING GRADUATE HEADCOUNT ENROLLMENT

Undergraduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Fall 2004	11	36	0	1	3	0	3	20	0	1	19	47
Fall 2005	15	30	0	2	7	0	3	15	0	0	18	45
Fall 2006	16	34	0	1	4	0	6	19	0	0	20	50
Fall 2007	14	25	0	0	2	0	3	17	0	0	17	39
Fall 2008	10	23	0	0	4	0	1	16	0	0	12	33
Fall 2009	9	29	0	0	4	0	2	15	0	0	17	38
Fall 2010	9	29	1	0	1	0	6	16	0	0	14	38
Fall 2011	9	38	0	1	1	0	9	13	0	0	23	47
Fall 2012	6	43	0	0	4	0	6	17	0	1	21	49
Fall 2013	7	43	0	1	3	0	5	18	1	1	21	50
10-Year Total	106	330	1	6	33	0	44	166	1	3	182	436
10-Year Change	-4	7	0	0	0	0	2	-2	1	0	2	3
10-Year % Change	-36%	19%	n/a	0%	0%	n/a	67%	-10%	n/a	n/a	11%	6%
Projection totals may not foot due to rounding.												
Fall 2014 (Preliminary)	7	44	0	1	3	0	5	18	0	1	21	51
Fall 2015 (Projected)	7	45	0	1	3	0	5	18	0	1	21	52
Fall 2016 (Projected)	7	46	0	1	3	0	5	19	0	1	22	53
Fall 2017 (Projected)	7	47	0	1	3	0	5	19	0	1	22	54
Fall 2018 (Projected)	8	48	0	1	3	0	5	19	0	1	23	55
Fall 2019 (Projected)	8	49	0	1	3	0	6	20	0	1	23	56
15-Year Projected Total	150	608	1	12	52	0	76	280	1	9	314	758
15-Year Projected Change	-3	13	0	0	0	0	3	0	0	0	4	9
15-Yr Projected % Change	-30%	35%	n/a	10%	10%	n/a	84%	-1%	n/a	10%	22%	20%

Enrollment data provided by Jason Jones, State University System of Florida

Projections provided by Rick Burnett of FSU and Kwadwo Owusu-Aduemiri of FAMU

Report prepared by CBT Consultants

Table 2D | **FAMU-FSU Joint College of Engineering Study** | **RFP #2D**

Headcount Enrollment in Engineering Programs at FAMU and FSU

By Gender, Race/Ethnicity, and Degree Level for Fall 2003 through Fall 2019 (Projected)

FLORIDA STATE UNIVERSITY

CIVIL ENGINEERING TOTAL HEADCOUNT ENROLLMENT

Undergraduate Enrollment	Female	Male		Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Fall 2004	72	225		3	13	25	0	34	22	0	5	195	297
Fall 2005	81	197		2	11	26	0	30	16	0	3	190	278
Fall 2006	75	203		3	9	22	0	26	23	0	3	192	278
Fall 2007	87	211		2	12	22	0	26	22	0	3	211	298
Fall 2008	76	213		2	12	17	0	25	24	0	2	207	289
Fall 2009	80	264		2	11	27	0	28	24	0	0	252	344
Fall 2010	72	244		3	4	25	0	37	23	0	2	222	316
Fall 2011	73	248		3	6	23	0	42	19	4	3	221	321
Fall 2012	60	234		1	9	17	0	36	23	4	5	199	294
Fall 2013	70	225		1	7	16	1	28	27	5	4	206	295
10-Year Total	746	2264		22	94	220	1	312	223	13	30	2095	3010
10-Year Change	-2	0	0	-2	-6	-9	1	-6	5	5	-1	11	-2
10-Year % Change	-3%	0%	#	n/a	-46%	-36%	n/a	-18%	23%	n/a	n/a	6%	-1%
Projection totals may not foot due to rounding.													
Fall 2014 (Preliminary)	71	228		0	8	16	0	28	27	5	4	208	298
Fall 2015 (Projected)	71	231		0	8	16	0	28	27	5	4	210	301
Fall 2016 (Projected)	72	234		0	8	16	0	29	28	5	4	213	305
Fall 2017 (Projected)	73	236		0	8	17	0	29	28	5	4	215	308
Fall 2018 (Projected)	74	239		0	8	17	0	29	28	5	4	217	311
Fall 2019 (Projected)	75	242		0	8	17	0	30	30	5	4	219	315
15-Year Projected Total	1182	3673		22	142	320	1	486	392	43	54	3377	4846
15-Year Projected Change	3	17		-3	-5	-8	0	-4	8	5	-1	24	18
15-Yr Projected % Change	4%	7%		-100%	-38%	-31%	n/a	-13%	36%	n/a	-18%	12%	6%

Enrollment data provided by Jason Jones, State University System of Florida

Projections provided by Rick Burnett of FSU and Kwadwo Owusu-Aduemiri of FAMU

Report prepared by CBT Consultants

FLORIDA A&M UNIVERSITY
COMPUTER ENGINEERING UNDERGRADUATE HEADCOUNT ENROLLMENT

Undergraduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Fall 2004	17	47	0	0	62	0	0	2	0	0	0	64
Fall 2005	12	35	0	0	45	0	0	2	0	0	0	47
Fall 2006	7	22	0	0	28	0	0	1	0	0	0	29
Fall 2007	5	15	0	0	19	0	0	1	0	0	0	20
Fall 2008	5	10	0	0	14	0	0	1	0	0	0	15
Fall 2009	0	14	0	0	14	0	0	0	0	0	0	14
Fall 2010	0	13	0	0	13	0	0	0	0	0	0	13
Fall 2011	19	52	0	0	71	0	0	0	0	0	0	71
Fall 2012	12	52	0	0	60	0	3	0	0	0	1	64
Fall 2013	17	40	0	0	53	0	2	0	0	0	2	57
10-Year Total	94	300	0	0	379	0	5	7	0	0	3	394
10-Year Change	0	-7	0	0	-9	0	2	-2	0	0	2	-7
10-Year % Change	0%	-15%	n/a	n/a	-15%	n/a	n/a	-100%	n/a	n/a	n/a	-11%
Projection totals may not foot due to rounding.												
Fall 2014 (Preliminary)	15	45	0	0	58	0	1	1	0	0	0	60
Fall 2015 (Projected)	16	49	0	0	63	0	1	1	0	0	0	65
Fall 2016 (Projected)	17	53	0	0	67	0	1	1	0	0	1	70
Fall 2017 (Projected)	19	56	0	0	72	0	1	1	0	0	1	75
Fall 2018 (Projected)	20	60	0	0	77	0	1	1	0	0	1	80
Fall 2019 (Projected)	20	62	0	0	79	0	1	1	0	0	1	82
15-Year Projected Total	201	625	0	0	795	0	10	15	0	0	6	826
15-Year Projected Change	3	15	0	0	17	0	1	-1	0	0	1	18
15-Yr Projected % Change	18%	32%	n/a	n/a	27%	n/a	n/a	-27%	n/a	n/a	n/a	28%

Enrollment data provided by Jason Jones, State University System of Florida

Projections provided by Rick Burnett of FSU and Kwadwo Owusu-Aduemiri of FAMU

Report prepared by CBT Consultants

Table 2D	FAMU-FSU Joint College of Engineering Study Headcount Enrollment in Engineering Programs at FAMU and FSU By Gender, Race/Ethnicity, and Degree Level for Fall 2003 through Fall 2019 (Projected)	RFP #2D

FLORIDA A&M UNIVERSITY
COMPUTER ENGINEERING GRADUATE HEADCOUNT ENROLLMENT

Undergraduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Fall 2004	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2005	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2006	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2007	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2008	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2009	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2010	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2011	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2012	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2013	0	0	0	0	0	0	0	0	0	0	0	0
10-Year Total	0	0	0	0	0	0	0	0	0	0	0	0
10-Year Change	0	0	0	0	0	0	0	0	0	0	0	0
10-Year % Change	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Projection totals may not foot due to rounding.												
Fall 2014 (Preliminary)	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2015 (Projected)	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2016 (Projected)	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2017 (Projected)	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2018 (Projected)	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2019 (Projected)	0	0	0	0	0	0	0	0	0	0	0	0
15-Year Projected Total	0	0	0	0	0	0	0	0	0	0	0	0
15-Year Projected Change	0	0	0	0	0	0	0	0	0	0	0	0
15-Yr Projected % Change	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Enrollment data provided by Jason Jones, State University System of Florida

Projections provided by Rick Burnett of FSU and Kwadwo Owusu-Aduemiri of FAMU

Report prepared by CBT Consultants

Table 2D	FAMU-FSU Joint College of Engineering Study Headcount Enrollment in Engineering Programs at FAMU and FSU By Gender, Race/Ethnicity, and Degree Level for Fall 2003 through Fall 2019 (Projected)	RFP #2D

FLORIDA A&M UNIVERSITY
COMPUTER ENGINEERING TOTAL HEADCOUNT ENROLLMENT

Undergraduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Fall 2004	17	47	0	0	62	0	0	2	0	0	0	64
Fall 2005	12	35	0	0	45	0	0	2	0	0	0	47
Fall 2006	7	22	0	0	28	0	0	1	0	0	0	29
Fall 2007	5	15	0	0	19	0	0	1	0	0	0	20
Fall 2008	5	10	0	0	14	0	0	1	0	0	0	15
Fall 2009	0	14	0	0	14	0	0	0	0	0	0	14
Fall 2010	0	13	0	0	13	0	0	0	0	0	0	13
Fall 2011	19	52	0	0	71	0	0	0	0	0	0	71
Fall 2012	12	52	0	0	60	0	3	0	0	0	1	64
Fall 2013	17	40	0	0	53	0	2	0	0	0	2	57
10-Year Total	94	300	0	0	379	0	5	7	0	0	3	394
10-Year Change	0	-7	0	0	-9	0	2	-2	0	0	2	-7
10-Year % Change	0%	-15%	n/a	n/a	-15%	n/a	n/a	-100%	n/a	n/a	n/a	-11%
Projection totals may not foot due to rounding.												
Fall 2014 (Preliminary)	17	47	0	0	62	0	0	2	0	0	0	64
Fall 2015 (Projected)	12	35	0	0	45	0	0	2	0	0	0	47
Fall 2016 (Projected)	7	22	0	0	28	0	0	1	0	0	0	29
Fall 2017 (Projected)	5	15	0	0	19	0	0	1	0	0	0	20
Fall 2018 (Projected)	5	10	0	0	14	0	0	1	0	0	0	15
Fall 2019 (Projected)	0	14	0	0	14	0	0	0	0	0	0	14
15-Year Projected Total	201	625	0	0	795	0	10	15	0	0	6	826
15-Year Projected Change	3	15	0	0	17	0	1	-1	0	0	1	18
15-Yr Projected % Change	18%	32%	n/a	n/a	27%	n/a	n/a	-27%	n/a	n/a	n/a	28%

Enrollment data provided by Jason Jones, State University System of Florida

Projections provided by Rick Burnett of FSU and Kwadwo Owusu-Aduemiri of FAMU

Report prepared by CBT Consultants

FLORIDA STATE UNIVERSITY
COMPUTER ENGINEERING UNDERGRADUATE HEADCOUNT ENROLLMENT

Undergraduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Fall 2004	6	41	0	4	17	0	7	1	0	0	18	47
Fall 2005	3	46	0	2	13	0	8	2	0	0	24	49
Fall 2006	5	41	0	1	10	0	7	5	0	0	23	46
Fall 2007	2	31	0	1	6	0	3	2	0	0	21	33
Fall 2008	3	34	0	1	8	0	5	1	0	0	22	37
Fall 2009	6	41	1	2	14	0	8	2	0	0	20	47
Fall 2010	7	42	1	1	15	0	10	3	0	0	19	49
Fall 2011	9	48	1	5	13	0	9	4	2	0	23	57
Fall 2012	10	44	0	7	10	0	11	1	2	1	22	54
Fall 2013	8	58	0	8	14	2	15	2	1	2	22	66
10-Year Total	59	426	3	32	120	2	83	23	5	3	214	485
10-Year Change	2	17	0	4	-3	2	8	1	1	2	4	19
10-Year % Change	33%	41%	n/a	100%	-18%	n/a	114%	100%	n/a	n/a	22%	40%
Projection totals may not foot due to rounding.												
Fall 2014 (Preliminary)	8	59	0	8	14	2	15	2	1	2	22	67
Fall 2015 (Projected)	8	59	0	8	14	2	15	2	1	2	22	67
Fall 2016 (Projected)	8	60	0	8	14	2	15	2	1	2	23	68
Fall 2017 (Projected)	8	60	0	8	15	2	16	2	1	2	23	69
Fall 2018 (Projected)	8	61	0	8	15	2	16	2	1	2	23	69
Fall 2019 (Projected)	8	62	0	8	15	2	16	2	1	2	23	70
15-Year Projected Total	109	786	3	82	207	14	176	35	11	15	351	895
15-Year Projected Change	2	21	0	4	-2	2	9	1	1	2	5	23
15-Yr Projected % Change	42%	50%	n/a	112%	-13%	n/a	127%	112%	n/a	n/a	30%	49%

Enrollment data provided by Jason Jones, State University System of Florida

Projections provided by Rick Burnett of FSU and Kwadwo Owusu-Aduemiri of FAMU

Report prepared by CBT Consultants

Table 2D | **FAMU-FSU Joint College of Engineering Study** | **RFP #2D**

Headcount Enrollment in Engineering Programs at FAMU and FSU

By Gender, Race/Ethnicity, and Degree Level for Fall 2003 through Fall 2019 (Projected)

FLORIDA STATE UNIVERSITY
COMPUTER ENGINEERING GRADUATE HEADCOUNT ENROLLMENT

Undergraduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Fall 2004	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2005	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2006	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2007	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2008	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2009	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2010	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2011	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2012	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2013	0	0	0	0	0	0	0	0	0	0	0	0
10-Year Total	0	0	0	0	0	0	0	0	0	0	0	0
10-Year Change	0	0	0	0	0	0	0	0	0	0	0	0
10-Year % Change	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Projection totals may not foot due to rounding.												
Fall 2014 (Preliminary)	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2015 (Projected)	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2016 (Projected)	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2017 (Projected)	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2018 (Projected)	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2019 (Projected)	0	0	0	0	0	0	0	0	0	0	0	0
15-Year Projected Total	0	0	0	0	0	0	0	0	0	0	0	0
15-Year Projected Change	0	0	0	0	0	0	0	0	0	0	0	0
15-Yr Projected % Change	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Enrollment data provided by Jason Jones, State University System of Florida

Projections provided by Rick Burnett of FSU and Kwadwo Owusu-Aduemiri of FAMU

Report prepared by CBT Consultants

Table 2D | **FAMU-FSU Joint College of Engineering Study** | **RFP #2D**

Headcount Enrollment in Engineering Programs at FAMU and FSU

By Gender, Race/Ethnicity, and Degree Level for Fall 2003 through Fall 2019 (Projected)

FLORIDA STATE UNIVERSITY
COMPUTER ENGINEERING TOTAL HEADCOUNT ENROLLMENT

Undergraduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Fall 2004	6	41	0	4	17	0	7	1	0	0	18	47
Fall 2005	3	46	0	2	13	0	8	2	0	0	24	49
Fall 2006	5	41	0	1	10	0	7	5	0	0	23	46
Fall 2007	2	31	0	1	6	0	3	2	0	0	21	33
Fall 2008	3	34	0	1	8	0	5	1	0	0	22	37
Fall 2009	6	41	1	2	14	0	8	2	0	0	20	47
Fall 2010	7	42	1	1	15	0	10	3	0	0	19	49
Fall 2011	9	48	1	5	13	0	9	4	2	0	23	57
Fall 2012	10	44	0	7	10	0	11	1	2	1	22	54
Fall 2013	8	58	0	8	14	2	15	2	1	2	22	66
10-Year Total	59	426	3	32	120	2	83	23	5	3	214	485
10-Year Change	2	17	0	4	-3	2	8	1	1	2	4	19
10-Year % Change	33%	41%	n/a	100%	-18%	n/a	114%	100%	n/a	n/a	22%	40%
Projection totals may not foot due to rounding.												
Fall 2014 (Preliminary)	6	41	0	4	17	0	7	1	0	0	18	47
Fall 2015 (Projected)	3	46	0	2	13	0	8	2	0	0	24	49
Fall 2016 (Projected)	5	41	0	1	10	0	7	5	0	0	23	46
Fall 2017 (Projected)	2	31	0	1	6	0	3	2	0	0	21	33
Fall 2018 (Projected)	3	34	0	1	8	0	5	1	0	0	22	37
Fall 2019 (Projected)	6	41	1	2	14	0	8	2	0	0	20	47
15-Year Projected Total	109	786	3	82	207	14	176	35	11	15	351	895
15-Year Projected Change	2	21	0	4	-2	2	9	1	1	2	5	23
15-Yr Projected % Change	42%	50%	n/a	112%	-13%	n/a	127%	112%	n/a	n/a	30%	49%

Enrollment data provided by Jason Jones, State University System of Florida

Projections provided by Rick Burnett of FSU and Kwadwo Owusu-Aduemiri of FAMU

Report prepared by CBT Consultants

FLORIDA A&M UNIVERSITY
ELECTRICAL ENGINEERING UNDERGRADUATE HEADCOUNT ENROLLMENT

Undergraduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Fall 2004	24	94	0	0	111	0	1	4	0	0	2	118
Fall 2005	10	66	0	0	73	0	1	1	0	0	1	76
Fall 2006	7	40	0	0	44	0	0	2	0	0	1	47
Fall 2007	8	40	0	0	42	0	0	3	0	0	3	48
Fall 2008	11	26	0	0	32	0	0	2	0	0	3	37
Fall 2009	7	23	0	0	26	0	0	2	0	0	2	30
Fall 2010	6	20	0	0	23	0	1	1	0	0	1	26
Fall 2011	13	70	0	0	78	0	1	1	0	0	3	83
Fall 2012	14	53	0	1	59	0	1	1	0	0	5	67
Fall 2013	9	39	0	1	41	0	0	3	0	0	3	48
10-Year Total	109	471	0	2	529	0	5	20	0	0	24	580
10-Year Change	-15	-55	0	1	-70	0	-1	-1	0	0	1	-70
10-Year % Change	-63%	-59%	n/a	n/a	-63%	n/a	-100%	-25%	n/a	n/a	50%	-59%
Projection totals may not foot due to rounding.												
Fall 2014 (Preliminary)	12	38	0	0	46	0	0	2	0	0	2	50
Fall 2015 (Projected)	14	41	0	0	50	0	0	2	0	0	2	55
Fall 2016 (Projected)	15	45	0	0	55	0	1	2	0	0	2	60
Fall 2017 (Projected)	16	49	0	0	59	0	1	2	0	0	3	65
Fall 2018 (Projected)	17	53	0	0	64	0	1	2	0	0	3	70
Fall 2019 (Projected)	18	54	0	0	66	0	1	2	0	0	3	72
15-Year Projected Total	201	751	0	3	868	0	8	33	0	0	39	952
15-Year Projected Change	-6	-40	0	0	-45	0	0	-2	0	0	1	-46
15-Yr Projected % Change	-25%	-43%	n/a	n/a	-41%	n/a	-38%	-38%	n/a	n/a	49%	-39%

Enrollment data provided by Jason Jones, State University System of Florida

Projections provided by Rick Burnett of FSU and Kwadwo Owusu-Aduemiri of FAMU

Report prepared by CBT Consultants

FLORIDA A&M UNIVERSITY
ELECTRICAL ENGINEERING GRADUATE HEADCOUNT ENROLLMENT

Undergraduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Fall 2004	0	11	0	0	7	0	0	4	0	0	0	11
Fall 2005	0	8	0	0	6	0	0	2	0	0	0	8
Fall 2006	0	8	0	0	5	0	0	3	0	0	0	8
Fall 2007	0	10	0	0	9	0	0	1	0	0	0	10
Fall 2008	0	7	0	0	6	0	0	1	0	0	0	7
Fall 2009	0	10	0	1	8	0	0	1	0	0	0	10
Fall 2010	1	7	0	0	7	0	0	1	0	0	0	8
Fall 2011	1	6	0	0	6	0	0	1	0	0	0	7
Fall 2012	2	5	0	0	7	0	0	0	0	0	0	7
Fall 2013	2	5	0	0	7	0	0	0	0	0	0	7
10-Year Total	6	77	0	1	68	0	0	14	0	0	0	83
10-Year Change	2	-6	0	0	0	0	0	-4	0	0	0	-4
10-Year % Change	n/a	-55%	n/a	n/a	0%	n/a	n/a	-100%	n/a	n/a	n/a	-36%
Projection totals may not foot due to rounding.												
Fall 2014 (Preliminary)	1	8	0	0	7	0	0	2	0	0	0	9
Fall 2015 (Projected)	1	11	0	0	10	0	0	2	0	0	0	12
Fall 2016 (Projected)	1	14	0	0	12	0	0	3	0	0	0	15
Fall 2017 (Projected)	1	17	0	0	15	0	0	3	0	0	0	18
Fall 2018 (Projected)	1	19	0	0	16	0	0	3	0	0	0	20
Fall 2019 (Projected)	2	21	0	0	19	0	0	4	0	0	0	23
15-Year Projected Total	13	167	0	2	147	0	0	30	0	0	0	180
15-Year Projected Change	2	10	0	0	12	0	0	0	0	0	0	12
15-Yr Projected % Change	n/a	94%	n/a	n/a	169%	n/a	n/a	-3%	n/a	n/a	n/a	109%

Enrollment data provided by Jason Jones, State University System of Florida

Projections provided by Rick Burnett of FSU and Kwadwo Owusu-Aduemiri of FAMU

Report prepared by CBT Consultants

FLORIDA A&M UNIVERSITY
ELECTRICAL ENGINEERING TOTAL HEADCOUNT ENROLLMENT

Undergraduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Fall 2004	24	105	0	0	118	0	1	8	0	0	2	129
Fall 2005	10	74	0	0	79	0	1	3	0	0	1	84
Fall 2006	7	48	0	0	49	0	0	5	0	0	1	55
Fall 2007	8	50	0	0	51	0	0	4	0	0	3	58
Fall 2008	11	33	0	0	38	0	0	3	0	0	3	44
Fall 2009	7	33	0	1	34	0	0	3	0	0	2	40
Fall 2010	7	27	0	0	30	0	1	2	0	0	1	34
Fall 2011	14	76	0	0	84	0	1	2	0	0	3	90
Fall 2012	16	58	0	1	66	0	1	1	0	0	5	74
Fall 2013	11	44	0	1	48	0	0	3	0	0	3	55
10-Year Total	115	548	0	3	597	0	5	34	0	0	24	663
10-Year Change	-13	-61	0	1	-70	0	-1	-5	0	0	1	-74
10-Year % Change	-54%	-58%	n/a	n/a	-59%	n/a	-100%	-63%	n/a	n/a	n/a	-57%
Projection totals may not foot due to rounding.												
Fall 2014 (Preliminary)	13	46	0	0	53	0	0	3	0	0	2	59
Fall 2015 (Projected)	15	52	0	0	60	0	0	4	0	0	2	67
Fall 2016 (Projected)	16	59	0	0	67	0	1	5	0	0	2	75
Fall 2017 (Projected)	17	66	0	0	74	0	1	5	0	0	3	83
Fall 2018 (Projected)	18	72	0	0	80	0	1	6	0	0	3	90
Fall 2019 (Projected)	20	75	0	1	85	0	1	6	0	0	3	95
15-Year Projected Total	214	918	0	5	1016	0	8	63	0	0	39	1132
15-Year Projected Change	-4	-30	0	1	-33	0	0	-2	0	0	1	-34
15-Yr Projected % Change	-18%	-28%	n/a	n/a	-28%	n/a	-38%	-20%	n/a	n/a	49%	-26%

Enrollment data provided by Jason Jones, State University System of Florida

Projections provided by Rick Burnett of FSU and Kwadwo Owusu-Aduemiri of FAMU

Report prepared by CBT Consultants

FLORIDA STATE UNIVERSITY
ELECTRICAL ENGINEERING UNDERGRADUATE HEADCOUNT ENROLLMENT

Undergraduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Fall 2004	26	129	0	7	33	0	31	5	0	1	78	155
Fall 2005	26	131	0	10	31	0	25	7	0	1	83	157
Fall 2006	18	128	0	14	17	0	16	6	0	2	91	146
Fall 2007	17	105	0	13	17	0	10	7	0	1	74	122
Fall 2008	12	83	0	8	10	0	10	8	0	2	57	95
Fall 2009	12	87	1	3	14	0	3	4	0	2	72	99
Fall 2010	12	115	2	9	21	0	6	3	0	4	82	127
Fall 2011	16	127	1	8	21	0	17	5	1	2	88	143
Fall 2012	19	152	1	13	29	0	22	5	3	2	96	171
Fall 2013	22	149	2	10	24	0	24	9	5	3	94	171
10-Year Total	180	1206	7	95	217	0	164	59	9	20	815	1386
10-Year Change	-4	20	2	3	-9	0	-7	4	5	2	16	16
10-Year % Change	-15%	16%	n/a	43%	-27%	n/a	-23%	80%	n/a	200%	21%	10%
Projection totals may not foot due to rounding.												
Fall 2014 (Preliminary)	22	150	2	10	24	0	24	9	5	3	95	173
Fall 2015 (Projected)	22	152	2	10	24	0	24	9	5	3	96	174
Fall 2016 (Projected)	23	154	2	10	25	0	25	9	5	3	97	176
Fall 2017 (Projected)	23	155	2	10	25	0	25	9	5	3	98	178
Fall 2018 (Projected)	23	157	2	11	25	0	25	9	5	3	99	180
Fall 2019 (Projected)	23	158	2	11	25	0	25	10	5	3	100	182
15-Year Projected Total	317	2132	19	157	366	0	313	115	40	39	1399	2449
15-Year Projected Change	-3	29	2	4	-8	0	-6	5	5	2	22	27
15-Yr Projected % Change	-10%	23%	n/a	52%	-23%	n/a	-18%	91%	n/a	218%	28%	17%

Enrollment data provided by Jason Jones, State University System of Florida

Projections provided by Rick Burnett of FSU and Kwadwo Owusu-Aduemiri of FAMU

Report prepared by CBT Consultants

Table 2D | **FAMU-FSU Joint College of Engineering Study** | **RFP #2D**

Headcount Enrollment in Engineering Programs at FAMU and FSU

By Gender, Race/Ethnicity, and Degree Level for Fall 2003 through Fall 2019 (Projected)

FLORIDA STATE UNIVERSITY
ELECTRICAL ENGINEERING GRADUATE HEADCOUNT ENROLLMENT

Undergraduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Fall 2004	7	45	0	1	7	0	2	27	0	0	15	52
Fall 2005	7	45	0	1	6	0	1	28	0	0	16	52
Fall 2006	8	49	0	2	6	0	2	32	0	0	15	57
Fall 2007	9	50	0	1	6	0	2	38	0	0	12	59
Fall 2008	10	50	0	2	4	0	3	37	0	0	14	60
Fall 2009	9	55	0	2	4	0	5	43	0	0	10	64
Fall 2010	9	64	0	2	5	0	3	39	0	0	24	73
Fall 2011	9	63	0	0	4	0	3	43	0	0	22	72
Fall 2012	10	62	0	3	4	0	3	41	0	1	20	72
Fall 2013	14	60	0	2	3	0	2	44	0	1	22	74
10-Year Total	92	543	0	16	49	0	26	372	0	2	170	635
10-Year Change	7	15	0	1	-4	0	0	17	0	1	7	22
10-Year % Change	100%	33%	n/a	100%	-57%	n/a	0%	63%	n/a	n/a	47%	42%
Projection totals may not foot due to rounding.												
Fall 2014 (Preliminary)	14	61	0	2	3	0	2	45	0	1	22	75
Fall 2015 (Projected)	15	62	0	2	3	0	2	46	0	1	23	77
Fall 2016 (Projected)	15	64	0	2	3	0	2	47	0	1	23	79
Fall 2017 (Projected)	15	65	0	2	3	0	2	48	0	1	24	80
Fall 2018 (Projected)	15	66	0	2	3	0	2	49	0	1	24	82
Fall 2019 (Projected)	16	68	0	2	3	0	2	50	0	1	25	83
15-Year Projected Total	182	929	0	29	68	0	39	655	0	8	312	1111
15-Year Projected Change	9	23	0	1	-4	0	0	23	0	1	10	31
15-Yr Projected % Change	125%	50%	n/a	125%	-52%	n/a	13%	84%	n/a	n/a	65%	60%

Enrollment data provided by Jason Jones, State University System of Florida

Projections provided by Rick Burnett of FSU and Kwadwo Owusu-Aduemiri of FAMU

Report prepared by CBT Consultants

FLORIDA STATE UNIVERSITY
ELECTRICAL ENGINEERING TOTAL HEADCOUNT ENROLLMENT

Undergraduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Fall 2004	33	174	0	8	40	0	33	32	0	1	93	207
Fall 2005	33	176	0	11	37	0	26	35	0	1	99	209
Fall 2006	26	177	0	16	23	0	18	38	0	2	106	203
Fall 2007	26	155	0	14	23	0	12	45	0	1	86	181
Fall 2008	22	133	0	10	14	0	13	45	0	2	71	155
Fall 2009	21	142	1	5	18	0	8	47	0	2	82	163
Fall 2010	21	179	2	11	26	0	9	42	0	4	106	200
Fall 2011	25	190	1	8	25	0	20	48	1	2	110	215
Fall 2012	29	214	1	16	33	0	25	46	3	3	116	243
Fall 2013	36	209	2	12	27	0	26	53	5	4	116	245
10-Year Total	272	1749	7	111	266	0	190	431	9	22	985	2021
10-Year Change	3	35	2	4	-13	0	-7	21	5	3	23	38
10-Year % Change	9%	20%	n/a	50%	-33%	n/a	-21%	66%	n/a	300%	25%	18%
Projection totals may not foot due to rounding.												
Fall 2014 (Preliminary)	37	212	2	12	27	0	26	54	5	4	117	248
Fall 2015 (Projected)	37	214	2	12	28	0	27	55	5	4	119	251
Fall 2016 (Projected)	38	217	2	12	28	0	27	56	5	4	120	255
Fall 2017 (Projected)	38	220	2	13	28	0	27	57	5	4	122	258
Fall 2018 (Projected)	39	223	2	13	29	0	27	58	5	4	123	261
Fall 2019 (Projected)	39	226	2	13	29	0	28	59	5	4	125	265
15-Year Projected Total	499	3061	19	186	434	0	352	770	40	47	1711	3560
15-Year Projected Change	6	52	2	5	-11	0	-5	27	5	3	32	58
15-Yr Projected % Change	19%	30%	n/a	61%	-28%	n/a	-16%	85%	n/a	331%	34%	28%

Enrollment data provided by Jason Jones, State University System of Florida

Projections provided by Rick Burnett of FSU and Kwadwo Owusu-Aduemiri of FAMU

Report prepared by CBT Consultants

FLORIDA A&M UNIVERSITY
BIOMEDICAL ENGINEERING UNDERGRADUATE HEADCOUNT ENROLLMENT

Undergraduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Fall 2004	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2005	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2006	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2007	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2008	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2009	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2010	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2011	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2012	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2013	0	0	0	0	0	0	0	0	0	0	0	0
10-Year Total	0	0	0	0	0	0	0	0	0	0	0	0
10-Year Change	0	0	0	0	0	0	0	0	0	0	0	0
10-Year % Change	0	0	0	0	0	0	0	0	0	0	0	0
Projection totals may not foot due to rounding.												
Fall 2014 (Preliminary)	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2015 (Projected)	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2016 (Projected)	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2017 (Projected)	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2018 (Projected)	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2019 (Projected)	0	0	0	0	0	0	0	0	0	0	0	0
15-Year Projected Total	0	0	0	0	0	0	0	0	0	0	0	0
15-Year Projected Change	0	0	0	0	0	0	0	0	0	0	0	0
15-Yr Projected % Change	0	0	0	0	0	0	0	0	0	0	0	0

Enrollment data provided by Jason Jones, State University System of Florida

Projections provided by Rick Burnett of FSU and Kwadwo Owusu-Aduemiri of FAMU

Report prepared by CBT Consultants

Table 2D	FAMU-FSU Joint College of Engineering Study Headcount Enrollment in Engineering Programs at FAMU and FSU By Gender, Race/Ethnicity, and Degree Level for Fall 2003 through Fall 2019 (Projected)	RFP #2D

FLORIDA A&M UNIVERSITY
BIOMEDICAL ENGINEERING GRADUATE HEADCOUNT ENROLLMENT

Undergraduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Fall 2004	0	1	0	0	1	0	0	0	0	0	0	1
Fall 2005	0	1	0	0	1	0	0	0	0	0	0	1
Fall 2006	0	1	0	0	1	0	0	0	0	0	0	1
Fall 2007	0	1	0	0	1	0	0	0	0	0	0	1
Fall 2008	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2009	1	0	0	0	1	0	0	0	0	0	0	1
Fall 2010	1	0	0	0	1	0	0	0	0	0	0	1
Fall 2011	1	0	0	0	1	0	0	0	0	0	0	1
Fall 2012	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2013	0	0	0	0	0	0	0	0	0	0	0	0
10-Year Total	3	4	0	0	7	0	0	0	0	0	0	7
10-Year Change	0	-1	0	0	-1	0	0	0	0	0	0	-1
10-Year % Change	n/a	-100%	n/a	n/a	-100%	n/a	n/a	n/a	n/a	n/a	n/a	-100%
Projection totals may not foot due to rounding.												
Fall 2014 (Preliminary)	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2015 (Projected)	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2016 (Projected)	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2017 (Projected)	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2018 (Projected)	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2019 (Projected)	0	0	0	0	0	0	0	0	0	0	0	0
15-Year Projected Total	3	4	0	0	7	0	0	0	0	0	0	7
15-Year Projected Change	0	-1	0	0	-1	0	0	0	0	0	0	-1
15-Yr Projected % Change	n/a	-25%	n/a	n/a	-14%	n/a	n/a	n/a	n/a	n/a	n/a	-14%

Enrollment data provided by Jason Jones, State University System of Florida

Projections provided by Rick Burnett of FSU and Kwadwo Owusu-Aduemiri of FAMU

Report prepared by CBT Consultants

Table 2D	FAMU-FSU Joint College of Engineering Study Headcount Enrollment in Engineering Programs at FAMU and FSU By Gender, Race/Ethnicity, and Degree Level for Fall 2003 through Fall 2019 (Projected)	RFP #2D

FLORIDA A&M UNIVERSITY
BIOMEDICAL ENGINEERING TOTAL HEADCOUNT ENROLLMENT

Undergraduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Fall 2004	0	1	0	0	1	0	0	0	0	0	0	1
Fall 2005	0	1	0	0	1	0	0	0	0	0	0	1
Fall 2006	0	1	0	0	1	0	0	0	0	0	0	1
Fall 2007	0	1	0	0	1	0	0	0	0	0	0	1
Fall 2008	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2009	1	0	0	0	1	0	0	0	0	0	0	1
Fall 2010	1	0	0	0	1	0	0	0	0	0	0	1
Fall 2011	1	0	0	0	1	0	0	0	0	0	0	1
Fall 2012	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2013	0	0	0	0	0	0	0	0	0	0	0	0
10-Year Total	3	4	0	0	7	0	0	0	0	0	0	7
10-Year Change	0	-1	0	0	-1	0	0	0	0	0	0	-1
10-Year % Change	n/a	-100%	n/a	n/a	-100%	n/a	n/a	n/a	n/a	n/a	n/a	-100%
Projection totals may not foot due to rounding.												
Fall 2014 (Preliminary)	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2015 (Projected)	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2016 (Projected)	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2017 (Projected)	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2018 (Projected)	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2019 (Projected)	0	0	0	0	0	0	0	0	0	0	0	0
15-Year Projected Total	3	4	0	0	7	0	0	0	0	0	0	7
15-Year Projected Change	0	-1	0	0	-1	0	0	0	0	0	0	-1
15-Yr Projected % Change	n/a	-100%	n/a	n/a	-100%	n/a	n/a	n/a	n/a	n/a	n/a	-100%

Enrollment data provided by Jason Jones, State University System of Florida

Projections provided by Rick Burnett of FSU and Kwadwo Owusu-Aduemiri of FAMU

Report prepared by CBT Consultants

FLORIDA STATE UNIVERSITY
BIOMEDICAL ENGINEERING UNDERGRADUATE HEADCOUNT ENROLLMENT

Undergraduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Fall 2004	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2005	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2006	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2007	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2008	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2009	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2010	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2011	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2012	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2013	0	0	0	0	0	0	0	0	0	0	0	0
10-Year Total	0	0	0	0	0	0	0	0	0	0	0	0
10-Year Change	0	0	0	0	0	0	0	0	0	0	0	0
10-Year % Change	0	0	0	0	0	0	0	0	0	0	0	0
Projection totals may not foot due to rounding.												
Fall 2014 (Preliminary)	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2015 (Projected)	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2016 (Projected)	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2017 (Projected)	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2018 (Projected)	0	0	0	0	0	0	0	0	0	0	0	0
Fall 2019 (Projected)	0	0	0	0	0	0	0	0	0	0	0	0
15-Year Projected Total	0	0	0	0	0	0	0	0	0	0	0	0
15-Year Projected Change	0	0	0	0	0	0	0	0	0	0	0	0
15-Yr Projected % Change	0	0	0	0	0	0	0	0	0	0	0	0

Enrollment data provided by Jason Jones, State University System of Florida

Projections provided by Rick Burnett of FSU and Kwadwo Owusu-Aduemiri of FAMU

Report prepared by CBT Consultants

Table 2D | **FAMU-FSU Joint College of Engineering Study** | **RFP #2D**

Headcount Enrollment in Engineering Programs at FAMU and FSU

By Gender, Race/Ethnicity, and Degree Level for Fall 2003 through Fall 2019 (Projected)

FLORIDA STATE UNIVERSITY
BIOMEDICAL ENGINEERING GRADUATE HEADCOUNT ENROLLMENT

Undergraduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Fall 2004	1	3	0	0	1	0	1	2	0	0	0	4
Fall 2005	1	3	0	0	1	0	1	1	0	0	1	4
Fall 2006	3	3	0	0	1	0	0	4	0	0	1	6
Fall 2007	4	3	0	0	1	0	0	4	0	0	2	7
Fall 2008	4	4	0	0	0	0	1	4	0	0	3	8
Fall 2009	7	4	0	0	1	0	1	4	0	0	5	11
Fall 2010	7	6	0	0	0	0	2	5	0	0	6	13
Fall 2011	4	5	0	0	0	0	2	3	0	0	4	9
Fall 2012	4	7	0	0	0	0	2	5	0	0	4	11
Fall 2013	1	5	0	0	0	0	1	4	0	0	1	6
10-Year Total	36	43	0	0	5	0	11	36	0	0	27	79
10-Year Change	0	2	0	0	-1	0	0	2	0	0	1	2
10-Year % Change	0%	67%	n/a	n/a	-100%	n/a	0%	n/a	n/a	n/a	n/a	50%
Projection totals may not foot due to rounding.												
Fall 2014 (Preliminary)	1	5	0	0	0	0	1	4	0	0	1	6
Fall 2015 (Projected)	1	5	0	0	0	0	1	4	0	0	1	6
Fall 2016 (Projected)	1	5	0	0	0	0	1	4	0	0	1	6
Fall 2017 (Projected)	1	5	0	0	0	0	1	4	0	0	1	6
Fall 2018 (Projected)	1	6	0	0	0	0	1	4	0	0	1	7
Fall 2019 (Projected)	1	6	0	0	0	0	1	5	0	0	1	7
15-Year Projected Total	42	75	0	0	5	0	17	62	0	0	33	118
15-Year Projected Change	0	3	0	0	-1	0	0	3	0	0	1	3
15-Yr Projected % Change	13%	88%	n/a	n/a	-100%	n/a	13%	125%	n/a	n/a	n/a	69%

Enrollment data provided by Jason Jones, State University System of Florida

Projections provided by Rick Burnett of FSU and Kwadwo Owusu-Aduemiri of FAMU

Report prepared by CBT Consultants

Table 2D — **FAMU-FSU Joint College of Engineering Study** — **RFP #2D**

Headcount Enrollment in Engineering Programs at FAMU and FSU

By Gender, Race/Ethnicity, and Degree Level for Fall 2003 through Fall 2019 (Projected)

FLORIDA STATE UNIVERSITY
BIOMEDICAL ENGINEERING TOTAL HEADCOUNT ENROLLMENT

Undergraduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Fall 2004	1	3	0	0	1	0	1	2	0	0	0	4
Fall 2005	1	3	0	0	1	0	1	1	0	0	1	4
Fall 2006	3	3	0	0	1	0	0	4	0	0	1	6
Fall 2007	4	3	0	0	1	0	0	4	0	0	2	7
Fall 2008	4	4	0	0	0	0	1	4	0	0	3	8
Fall 2009	7	4	0	0	1	0	1	4	0	0	5	11
Fall 2010	7	6	0	0	0	0	2	5	0	0	6	13
Fall 2011	4	5	0	0	0	0	2	3	0	0	4	9
Fall 2012	4	7	0	0	0	0	2	5	0	0	4	11
Fall 2013	1	5	0	0	0	0	1	4	0	0	1	6
10-Year Total	36	43	0	0	5	0	11	36	0	0	27	79
10-Year Change	0	2	0	0	-1	0	0	2	0	0	1	2
10-Year % Change	0%	67%	n/a	n/a	-100%	n/a	0%	n/a	n/a	n/a	n/a	50%
Projection totals may not foot due to rounding.												
Fall 2014 (Preliminary)	1	5	0	0	0	0	1	4	0	0	1	6
Fall 2015 (Projected)	1	5	0	0	0	0	1	4	0	0	1	6
Fall 2016 (Projected)	1	5	0	0	0	0	1	4	0	0	1	6
Fall 2017 (Projected)	1	5	0	0	0	0	1	4	0	0	1	6
Fall 2018 (Projected)	1	6	0	0	0	0	1	4	0	0	1	7
Fall 2019 (Projected)	1	6	0	0	0	0	1	5	0	0	1	7
15-Year Projected Total	42	75	0	0	5	0	17	62	0	0	33	118
15-Year Projected Change	0	3	0	0	-1	0	0	3	0	0	1	3
15-Yr Projected % Change	13%	88%	n/a	n/a	-100%	n/a	n/a	n/a	n/a	n/a	n/a	69%

Enrollment data provided by Jason Jones, State University System of Florida

Projections provided by Rick Burnett of FSU and Kwadwo Owusu-Aduemiri of FAMU

Report prepared by CBT Consultants

FLORIDA A&M UNIVERSITY
INDUSTRIAL ENGINEERING UNDERGRADUATE HEADCOUNT ENROLLMENT

Undergraduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Fall 2004	25	33	0	0	57	0	0	1	0	0	0	58
Fall 2005	8	25	0	0	32	0	0	1	0	0	0	33
Fall 2006	8	19	0	0	26	0	0	0	0	0	1	27
Fall 2007	8	16	0	0	24	0	0	0	0	0	0	24
Fall 2008	5	14	0	0	18	0	0	0	0	0	1	19
Fall 2009	2	14	0	0	15	0	0	0	0	0	1	16
Fall 2010	3	9	0	0	12	0	0	0	0	0	0	12
Fall 2011	12	18	0	0	28	0	0	1	0	0	1	30
Fall 2012	10	13	0	0	21	0	0	1	0	0	1	23
Fall 2013	8	14	0	0	22	0	0	0	0	0	0	22
10-Year Total	89	175	0	0	255	0	0	4	0	0	5	264
10-Year Change	-17	-19	0	0	-35	0	0	-1	0	0	0	-36
10-Year % Change	-68%	-58%	n/a	n/a	-61%	n/a	n/a	-100%	n/a	n/a	n/a	-62%
Projection totals may not foot due to rounding.												
Fall 2014 (Preliminary)	8	17	0	0	24	0	0	0	0	0	0	25
Fall 2015 (Projected)	10	18	0	0	27	0	0	0	0	0	1	28
Fall 2016 (Projected)	12	19	0	0	30	0	0	0	0	0	1	31
Fall 2017 (Projected)	14	20	0	0	33	0	0	1	0	0	1	34
Fall 2018 (Projected)	16	20	0	0	35	0	0	1	0	0	1	36
Fall 2019 (Projected)	18	20	0	0	37	0	0	1	0	0	1	38
15-Year Projected Total	167	289	0	0	440	0	0	7	0	0	9	456
15-Year Projected Change	-7	-13	0	0	-20	0	0	0	0	0	1	-20
15-Yr Projected % Change	-28%	-39%	n/a	n/a	-36%	n/a	n/a	-42%	n/a	n/a	n/a	-34%

Enrollment data provided by Jason Jones, State University System of Florida

Projections provided by Rick Burnett of FSU and Kwadwo Owusu-Aduemiri of FAMU

Report prepared by CBT Consultants

Table 2D | **FAMU-FSU Joint College of Engineering Study** | **RFP #2D**

Headcount Enrollment in Engineering Programs at FAMU and FSU

By Gender, Race/Ethnicity, and Degree Level for Fall 2003 through Fall 2019 (Projected)

FLORIDA A&M UNIVERSITY
INDUSTRIAL ENGINEERING GRADUATE HEADCOUNT ENROLLMENT

Undergraduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Fall 2004	4	10	0	1	9	0	1	3	0	0	0	14
Fall 2005	3	8	0	1	7	0	1	2	0	0	0	11
Fall 2006	0	11	0	0	8	0	2	1	0	0	0	11
Fall 2007	0	6	0	0	2	0	1	3	0	0	0	6
Fall 2008	2	5	0	0	5	0	0	2	0	0	0	7
Fall 2009	1	6	0	0	5	0	0	2	0	0	0	7
Fall 2010	1	5	0	0	5	0	0	1	0	0	0	6
Fall 2011	1	3	0	0	4	0	0	0	0	0	0	4
Fall 2012	1	1	0	0	2	0	0	0	0	0	0	2
Fall 2013	1	3	0	0	3	0	0	1	0	0	0	4
10-Year Total	14	58	0	2	50	0	5	15	0	0	0	72
10-Year Change	-3	-7	0	-1	-6	0	-1	-2	0	0	0	-10
10-Year % Change	-75%	-70%	n/a	-100%	-67%	n/a	n/a	-67%	n/a	n/a	n/a	-71%
Projection totals may not foot due to rounding.												
Fall 2014 (Preliminary)	1	4	0	0	3	0	0	1	0	0	0	5
Fall 2015 (Projected)	1	6	0	0	5	0	0	1	0	0	0	7
Fall 2016 (Projected)	2	6	0	0	6	0	1	2	0	0	0	8
Fall 2017 (Projected)	2	8	0	0	7	0	1	2	0	0	0	10
Fall 2018 (Projected)	2	10	0	0	8	0	1	3	0	0	0	12
Fall 2019 (Projected)	3	10	0	0	9	0	1	3	0	0	0	13
15-Year Projected Total	25	102	0	4	88	0	9	26	0	0	0	127
15-Year Projected Change	-1	0	0	-1	0	0	0	0	0	0	0	-1
15-Yr Projected % Change	-37%	5%	n/a	-64%	0%	n/a	-10%	-10%	n/a	n/a	n/a	-7%

Enrollment data provided by Jason Jones, State University System of Florida

Projections provided by Rick Burnett of FSU and Kwadwo Owusu-Aduemiri of FAMU

Report prepared by CBT Consultants

Table 2D — **FAMU-FSU Joint College of Engineering Study** — **RFP #2D**

Headcount Enrollment in Engineering Programs at FAMU and FSU

By Gender, Race/Ethnicity, and Degree Level for Fall 2003 through Fall 2019 (Projected)

FLORIDA A&M UNIVERSITY
INDUSTRIAL ENGINEERING TOTAL HEADCOUNT ENROLLMENT

Undergraduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Fall 2004	29	43	0	1	66	0	1	4	0	0	0	72
Fall 2005	11	33	0	1	39	0	1	3	0	0	0	44
Fall 2006	8	30	0	0	34	0	2	1	0	0	1	38
Fall 2007	8	22	0	0	26	0	1	3	0	0	0	30
Fall 2008	7	19	0	0	23	0	0	2	0	0	1	26
Fall 2009	3	20	0	0	20	0	0	2	0	0	1	23
Fall 2010	4	14	0	0	17	0	0	1	0	0	0	18
Fall 2011	13	21	0	0	32	0	0	1	0	0	1	34
Fall 2012	11	14	0	0	23	0	0	1	0	0	1	25
Fall 2013	9	17	0	0	25	0	0	1	0	0	0	26
10-Year Total	103	233	0	2	305	0	5	19	0	0	5	336
10-Year Change	-20	-26	0	-1	-41	0	-1	-3	0	0	0	-46
10-Year % Change	-69%	-60%	n/a	-100%	-62%	n/a	-100%	-75%	n/a	n/a	n/a	-64%
Projection totals may not foot due to rounding.												
Fall 2014 (Preliminary)	9	21	0	0	28	0	0	1	0	0	0	30
Fall 2015 (Projected)	11	24	0	0	32	0	0	2	0	0	1	35
Fall 2016 (Projected)	14	25	0	0	35	0	1	2	0	0	1	39
Fall 2017 (Projected)	16	28	0	0	40	0	1	3	0	0	1	44
Fall 2018 (Projected)	18	30	0	0	43	0	1	3	0	0	1	48
Fall 2019 (Projected)	21	30	0	0	46	0	1	3	0	0	1	51
15-Year Projected Total	192	391	0	4	529	0	9	33	0	0	9	583
15-Year Projected Change	-8	-13	0	-1	-20	0	0	-1	0	0	1	-21
15-Yr Projected % Change	-29%	-29%	n/a	n/a	-31%	n/a	n/a	-18%	n/a	n/a	n/a	-29%

Enrollment data provided by Jason Jones, State University System of Florida

Projections provided by Rick Burnett of FSU and Kwadwo Owusu-Aduemiri of FAMU

Report prepared by CBT Consultants

FLORIDA STATE UNIVERSITY
INDUSTRIAL ENGINEERING UNDERGRADUATE HEADCOUNT ENROLLMENT

Undergraduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Fall 2004	23	64	0	0	26	0	22	8	0	0	31	87
Fall 2005	27	50	0	3	19	0	26	6	0	1	22	77
Fall 2006	26	41	0	2	16	0	15	14	0	1	19	67
Fall 2007	19	27	0	2	12	0	9	8	0	0	15	46
Fall 2008	20	26	0	2	5	0	9	9	0	0	21	46
Fall 2009	25	35	0	4	4	0	14	9	0	0	29	60
Fall 2010	26	46	0	6	4	0	16	11	0	1	34	72
Fall 2011	22	51	0	4	4	0	12	11	1	1	40	73
Fall 2012	23	40	0	2	2	0	14	11	0	1	33	63
Fall 2013	31	49	0	2	2	0	15	23	0	0	38	80
10-Year Total	242	429	0	27	94	0	152	110	1	5	282	671
10-Year Change	8	-15	0	2	-24	0	-7	15	0	0	7	-7
10-Year % Change	35%	-23%	n/a	n/a	-92%	n/a	-32%	188%	n/a	n/a	23%	-8%
Projection totals may not foot due to rounding.												
Fall 2014 (Preliminary)	31	49	0	2	2	0	15	23	0	0	38	81
Fall 2015 (Projected)	32	50	0	2	2	0	15	23	0	0	39	82
Fall 2016 (Projected)	32	50	0	2	2	0	15	24	0	0	39	82
Fall 2017 (Projected)	32	51	0	2	2	0	16	24	0	0	40	83
Fall 2018 (Projected)	33	51	0	2	2	0	16	24	0	0	40	84
Fall 2019 (Projected)	33	52	0	2	2	0	16	24	0	0	40	85
15-Year Projected Total	435	733	0	39	106	0	245	253	1	5	518	1168
15-Year Projected Change	10	-12	0	2	-24	0	-6	16	0	0	9	-2
15-Yr Projected % Change	43%	-19%	n/a	n/a	-92%	n/a	-28%	205%	n/a	n/a	30%	-2%

Enrollment data provided by Jason Jones, State University System of Florida

Projections provided by Rick Burnett of FSU and Kwadwo Owusu-Aduemiri of FAMU

Report prepared by CBT Consultants

Table 2D Headcount Enrollment in Engineering Programs at FAMU and FSU
By Gender, Race/Ethnicity, and Degree Level for Fall 2003 through Fall 2019 (Projected)

FLORIDA STATE UNIVERSITY
INDUSTRIAL ENGINEERING GRADUATE HEADCOUNT ENROLLMENT

Undergraduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Fall 2004	10	28	0	3	7	0	3	19	0	2	4	38
Fall 2005	10	33	0	3	6	0	4	18	0	3	9	43
Fall 2006	13	35	0	2	7	0	3	27	0	2	7	48
Fall 2007	13	37	1	3	4	0	2	32	0	0	8	50
Fall 2008	7	38	1	3	2	0	2	31	0	1	5	45
Fall 2009	9	31	0	3	3	0	2	26	0	1	5	40
Fall 2010	6	25	0	1	3	0	1	18	0	1	7	31
Fall 2011	6	24	0	0	2	0	0	19	0	1	8	30
Fall 2012	6	23	0	0	2	0	1	19	0	0	7	29
Fall 2013	7	24	0	1	3	0	1	19	0	2	5	31
10-Year Total	87	298	2	19	39	0	19	228	0	13	65	385
10-Year Change	-3	-4	0	-2	-4	0	-2	0	0	0	1	-7
10-Year % Change	-30%	-14%	n/a	-67%	-57%	n/a	-67%	0%	n/a	n/a	25%	-18%
Projection totals may not foot due to rounding.												
Fall 2014 (Preliminary)	7	24	0	1	3	0	1	19	0	2	5	32
Fall 2015 (Projected)	7	25	0	1	3	0	1	20	0	2	5	32
Fall 2016 (Projected)	7	25	0	1	3	0	1	20	0	2	5	33
Fall 2017 (Projected)	8	26	0	1	3	0	1	21	0	2	5	34
Fall 2018 (Projected)	8	26	0	1	3	0	1	21	0	2	6	34
Fall 2019 (Projected)	8	27	0	1	3	0	1	21	0	2	6	35
15-Year Projected Total	132	452	2	25	58	0	25	350	0	26	97	584
15-Year Projected Change	-2	-1	0	-2	-4	0	-2	2	0	0	2	-3
15-Yr Projected % Change	-21%	-3%	n/a	-62%	-52%	n/a	-62%	13%	n/a	13%	41%	-8%

Enrollment data provided by Jason Jones, State University System of Florida

Projections provided by Rick Burnett of FSU and Kwadwo Owusu-Aduemiri of FAMU

Report prepared by CBT Consultants

Table 2D | **FAMU-FSU Joint College of Engineering Study** | **RFP #2D**

Headcount Enrollment in Engineering Programs at FAMU and FSU

By Gender, Race/Ethnicity, and Degree Level for Fall 2003 through Fall 2019 (Projected)

FLORIDA STATE UNIVERSITY
INDUSTRIAL ENGINEERING TOTAL HEADCOUNT ENROLLMENT

Undergraduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Fall 2004	33	92	0	3	33	0	25	27	0	2	35	125
Fall 2005	37	83	0	6	25	0	30	24	0	4	31	120
Fall 2006	39	76	0	4	23	0	18	41	0	3	26	115
Fall 2007	32	64	1	5	16	0	11	40	0	0	23	96
Fall 2008	27	64	1	5	7	0	11	40	0	1	26	91
Fall 2009	34	66	0	7	7	0	16	35	0	1	34	100
Fall 2010	32	71	0	7	7	0	17	29	0	2	41	103
Fall 2011	28	75	0	4	6	0	12	30	1	2	48	103
Fall 2012	29	63	0	2	4	0	15	30	0	1	40	92
Fall 2013	38	73	0	3	5	0	16	42	0	2	43	111
10-Year Total	329	727	2	46	133	0	171	338	1	18	347	1056
10-Year Change	5	-19	0	0	-28	0	-9	15	0	0	8	-14
10-Year % Change	15%	-21%	n/a	0%	-85%	n/a	-36%	56%	n/a	0%	23%	-11%
Projection totals may not foot due to rounding.												
Fall 2014 (Preliminary)	38	74	0	3	5	0	16	43	0	2	43	112
Fall 2015 (Projected)	39	75	0	3	5	0	16	43	0	2	44	114
Fall 2016 (Projected)	39	76	0	3	5	0	17	44	0	2	44	115
Fall 2017 (Projected)	40	77	0	3	5	0	17	45	0	2	45	117
Fall 2018 (Projected)	40	78	0	3	5	0	17	45	0	2	45	118
Fall 2019 (Projected)	41	79	0	3	6	0	17	46	0	2	46	120
15-Year Projected Total	567	1186	2	65	165	0	271	603	1	31	615	1753
15-Year Projected Change	8	-13	0	0	-27	0	-8	19	0	0	11	-5
15-Yr Projected % Change	24%	-14%	n/a	8%	-83%	n/a	-32%	70%	n/a	13%	31%	-4%

Enrollment data provided by Jason Jones, State University System of Florida

Projections provided by Rick Burnett of FSU and Kwadwo Owusu-Aduemiri of FAMU

Report prepared by CBT Consultants

FLORIDA A&M UNIVERSITY
MECHANICAL ENGINEERING UNDERGRADUATE HEADCOUNT ENROLLMENT

Undergraduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Fall 2004	11	44	0	0	49	0	0	6	0	0	0	55
Fall 2005	15	32	0	0	46	0	0	1	0	0	0	47
Fall 2006	11	30	0	0	38	0	0	2	0	0	1	41
Fall 2007	6	23	0	0	27	0	0	1	0	0	1	29
Fall 2008	4	18	0	0	22	0	0	0	0	0	0	22
Fall 2009	3	17	0	1	18	0	1	0	0	0	0	20
Fall 2010	1	22	0	1	19	0	1	2	0	0	0	23
Fall 2011	18	86	0	0	95	0	2	3	0	0	4	104
Fall 2012	16	63	0	0	67	0	4	2	0	0	6	79
Fall 2013	14	71	1	0	74	0	3	0	0	0	7	85
10-Year Total	99	406	1	2	455	0	11	17	0	0	19	505
10-Year Change	3	27	1	0	25	0	3	-6	0	0	7	30
10-Year % Change	27%	61%	n/a	n/a	51%	n/a	n/a	-100%	n/a	n/a	n/a	55%
Projection totals may not foot due to rounding.												
Fall 2014 (Preliminary)	22	68	0	0	81	0	2	3	0	0	3	90
Fall 2015 (Projected)	24	71	0	0	86	0	2	3	0	0	4	95
Fall 2016 (Projected)	25	75	0	0	90	0	2	3	0	0	4	100
Fall 2017 (Projected)	26	79	0	0	95	0	2	4	0	0	4	105
Fall 2018 (Projected)	28	84	0	0	101	0	2	4	0	0	4	112
Fall 2019 (Projected)	30	90	0	0	108	0	3	4	0	0	5	120
15-Year Projected Total	254	873	2	4	1015	0	25	38	0	0	42	1127
15-Year Projected Change	19	46	0	0	59	0	3	-2	0	0	5	65
15-Yr Projected % Change	173%	105%	n/a	n/a	121%	n/a	n/a	-33%	n/a	n/a	n/a	118%

Enrollment data provided by Jason Jones, State University System of Florida

Projections provided by Rick Burnett of FSU and Kwadwo Owusu-Aduemiri of FAMU

Report prepared by CBT Consultants

Table 2D | **FAMU-FSU Joint College of Engineering Study** | **RFP #2D**

Headcount Enrollment in Engineering Programs at FAMU and FSU

By Gender, Race/Ethnicity, and Degree Level for Fall 2003 through Fall 2019 (Projected)

FLORIDA A&M UNIVERSITY
MECHANICAL ENGINEERING GRADUATE HEADCOUNT ENROLLMENT

Undergraduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Fall 2004	5	8	0	0	11	0	0	2	0	0	0	13
Fall 2005	2	6	0	0	6	0	0	2	0	0	0	8
Fall 2006	2	6	0	0	7	0	0	0	0	0	1	8
Fall 2007	3	6	0	0	7	0	0	1	0	0	1	9
Fall 2008	6	4	0	0	9	0	0	1	0	0	0	10
Fall 2009	5	4	0	0	8	0	0	1	0	0	0	9
Fall 2010	5	3	0	0	7	0	0	1	0	0	0	8
Fall 2011	3	1	0	0	4	0	0	0	0	0	0	4
Fall 2012	3	2	0	0	5	0	0	0	0	0	0	5
Fall 2013	2	2	0	0	4	0	0	0	0	0	0	4
10-Year Total	36	42	0	0	68	0	0	8	0	0	2	78
10-Year Change	-3	-6	0	0	-7	0	0	-2	0	0	0	-9
10-Year % Change	-60%	-75%	n/a	n/a	-64%	n/a	n/a	-100%	n/a	n/a	n/a	-69%
Projection totals may not foot due to rounding.												
Fall 2014 (Preliminary)	2	3	0	0	4	0	0	1	0	0	0	5
Fall 2015 (Projected)	3	4	0	0	6	0	0	1	0	0	0	7
Fall 2016 (Projected)	4	4	0	0	7	0	0	1	0	0	0	8
Fall 2017 (Projected)	5	5	0	0	9	0	0	1	0	0	0	10
Fall 2018 (Projected)	6	6	0	0	10	0	0	1	0	0	0	12
Fall 2019 (Projected)	6	7	0	0	11	0	0	1	0	0	0	13
15-Year Projected Total	61	72	0	0	116	0	0	14	0	0	3	133
15-Year Projected Change	1	-1	0	0	0	0	0	-1	0	0	0	0
15-Yr Projected % Change	20%	-13%	n/a	n/a	3%	n/a	n/a	-33%	n/a	n/a	n/a	0%

Enrollment data provided by Jason Jones, State University System of Florida

Projections provided by Rick Burnett of FSU and Kwadwo Owusu-Aduemiri of FAMU

Report prepared by CBT Consultants

Table 2D | **FAMU-FSU Joint College of Engineering Study** | **RFP #2D**

Headcount Enrollment in Engineering Programs at FAMU and FSU

By Gender, Race/Ethnicity, and Degree Level for Fall 2003 through Fall 2019 (Projected)

FLORIDA A&M UNIVERSITY
MECHANICAL ENGINEERING TOTAL HEADCOUNT ENROLLMENT

Undergraduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Fall 2004	16	52	0	0	60	0	0	8	0	0	0	68
Fall 2005	17	38	0	0	52	0	0	3	0	0	0	55
Fall 2006	13	36	0	0	45	0	0	2	0	0	2	49
Fall 2007	9	29	0	0	34	0	0	2	0	0	2	38
Fall 2008	10	22	0	0	31	0	0	1	0	0	0	32
Fall 2009	8	21	0	1	26	0	1	1	0	0	0	29
Fall 2010	6	25	0	1	26	0	1	3	0	0	0	31
Fall 2011	21	87	0	0	99	0	2	3	0	0	4	108
Fall 2012	19	65	0	0	72	0	4	2	0	0	6	84
Fall 2013	16	73	1	0	78	0	3	0	0	0	7	89
10-Year Total	135	448	1	2	523	0	11	25	0	0	21	583
10-Year Change	0	21	1	0	18	0	3	-8	0	0	7	21
10-Year % Change	0%	40%	n/a	n/a	30%	n/a	n/a	-100%	n/a	n/a	n/a	31%
Projection totals may not foot due to rounding.												
Fall 2014 (Preliminary)	24	71	0	0	85	0	2	4	0	0	4	95
Fall 2015 (Projected)	27	75	0	0	92	0	2	4	0	0	4	102
Fall 2016 (Projected)	29	79	0	0	97	0	2	4	0	0	4	108
Fall 2017 (Projected)	31	84	0	0	103	0	2	5	0	0	4	115
Fall 2018 (Projected)	34	90	0	0	111	0	2	5	0	0	5	124
Fall 2019 (Projected)	36	97	0	0	119	0	3	5	0	0	5	133
15-Year Projected Total	315	945	2	4	1131	0	25	52	0	0	46	1260
15-Year Projected Change	20	45	0	0	59	0	3	-3	0	0	5	65
15-Yr Projected % Change	125%	87%	n/a	n/a	99%	n/a	n/a	-33%	n/a	n/a	n/a	96%

Enrollment data provided by Jason Jones, State University System of Florida

Projections provided by Rick Burnett of FSU and Kwadwo Owusu-Aduemiri of FAMU

Report prepared by CBT Consultants

Table 2D

Headcount Enrollment in Engineering Programs at FAMU and FSU
By Gender, Race/Ethnicity, and Degree Level for Fall 2003 through Fall 2019 (Projected)

FLORIDA STATE UNIVERSITY
MECHANICAL ENGINEERING UNDERGRADUATE HEADCOUNT ENROLLMENT

Undergraduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Fall 2004	19	144	0	4	27	0	25	0	0	1	106	163
Fall 2005	15	160	0	8	15	0	24	1	0	2	125	175
Fall 2006	20	171	2	7	10	0	20	2	0	2	148	191
Fall 2007	24	193	2	7	10	0	24	1	0	2	171	217
Fall 2008	21	185	1	11	7	0	27	3	0	0	157	206
Fall 2009	19	204	0	12	11	0	29	3	0	2	166	223
Fall 2010	20	232	0	9	12	0	38	5	0	6	182	252
Fall 2011	26	242	1	9	10	0	42	3	4	8	191	268
Fall 2012	39	250	2	12	13	0	39	3	13	8	199	289
Fall 2013	49	280	2	15	19	2	44	5	10	10	222	329
10-Year Total	252	2061	10	94	134	2	312	26	27	41	1667	2313
10-Year Change	30	136	2	11	-8	2	19	5	10	9	116	166
10-Year % Change	158%	94%	n/a	275%	-30%	n/a	76%	n/a	n/a	n/a	109%	102%
Projection totals may not foot due to rounding.												
Fall 2014 (Preliminary)	49	283	2	15	19	2	44	5	10	10	224	332
Fall 2015 (Projected)	50	286	2	15	19	2	45	5	10	10	226	336
Fall 2016 (Projected)	50	288	2	15	20	2	45	5	10	10	229	339
Fall 2017 (Projected)	51	291	2	16	20	2	46	5	10	10	231	342
Fall 2018 (Projected)	51	294	2	16	20	2	46	5	11	11	233	346
Fall 2019 (Projected)	52	297	2	16	20	2	47	5	11	11	236	349
15-Year Projected Total	556	3801	22	187	252	14	585	57	89	103	3046	4357
15-Year Projected Change	33	153	2	12	-7	2	22	5	11	10	130	186
15-Yr Projected % Change	174%	106%	n/a	298%	-25%	n/a	87%	n/a	n/a	962%	122%	114%

Enrollment data provided by Jason Jones, State University System of Florida

Projections provided by Rick Burnett of FSU and Kwadwo Owusu-Aduemiri of FAMU

Report prepared by CBT Consultants

Table 2D | **FAMU-FSU Joint College of Engineering Study** | **RFP #2D**

Headcount Enrollment in Engineering Programs at FAMU and FSU

By Gender, Race/Ethnicity, and Degree Level for Fall 2003 through Fall 2019 (Projected)

FLORIDA STATE UNIVERSITY
MECHANICAL ENGINEERING GRADUATE HEADCOUNT ENROLLMENT

Undergraduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Fall 2004	14	55	0	2	1	0	1	45	0	1	19	69
Fall 2005	14	57	0	1	4	0	4	39	0	2	21	71
Fall 2006	7	52	0	1	2	0	4	30	0	1	21	59
Fall 2007	9	57	0	1	2	0	6	29	0	1	27	66
Fall 2008	7	52	0	0	1	0	5	28	0	1	24	59
Fall 2009	7	51	0	0	2	0	5	29	0	0	22	58
Fall 2010	6	56	0	0	1	0	5	25	0	1	30	62
Fall 2011	9	60	0	0	1	0	3	26	0	2	37	69
Fall 2012	6	59	0	1	2	0	5	20	0	2	35	65
Fall 2013	8	59	0	0	1	0	8	23	0	2	33	67
10-Year Total	87	558	0	6	17	0	46	294	0	13	269	645
10-Year Change	-6	4	0	-2	0	0	7	-22	0	1	14	-2
10-Year % Change	-43%	7%	n/a	-100%	0%	n/a	700%	-49%	n/a	100%	74%	-3%
Projection totals may not foot due to rounding.												
Fall 2014 (Preliminary)	8	60	0	0	1	0	8	23	0	2	34	68
Fall 2015 (Projected)	8	61	0	0	1	0	8	24	0	2	34	70
Fall 2016 (Projected)	8	63	0	0	1	0	8	24	0	2	35	71
Fall 2017 (Projected)	9	64	0	0	1	0	9	25	0	2	36	73
Fall 2018 (Projected)	9	65	0	0	1	0	9	25	0	2	36	74
Fall 2019 (Projected)	9	66	0	0	1	0	9	26	0	2	37	75
15-Year Projected Total	138	938	0	6	23	0	97	442	0	26	481	1076
15-Year Projected Change	-5	11	0	-2	0	0	8	-19	0	1	18	6
15-Yr Projected % Change	-36%	21%	n/a	-100%	13%	n/a	801%	-42%	n/a	125%	96%	9%

Enrollment data provided by Jason Jones, State University System of Florida

Projections provided by Rick Burnett of FSU and Kwadwo Owusu-Aduemiri of FAMU

Report prepared by CBT Consultants

Table 2D | **FAMU-FSU Joint College of Engineering Study** | **RFP #2D**

Headcount Enrollment in Engineering Programs at FAMU and FSU

By Gender, Race/Ethnicity, and Degree Level for Fall 2003 through Fall 2019 (Projected)

FLORIDA STATE UNIVERSITY
MECHANICAL ENGINEERING TOTAL HEADCOUNT ENROLLMENT

Undergraduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Fall 2004	33	199	0	6	28	0	26	45	0	2	125	232
Fall 2005	29	217	0	9	19	0	28	40	0	4	146	246
Fall 2006	27	223	2	8	12	0	24	32	0	3	169	250
Fall 2007	33	250	2	8	12	0	30	30	0	3	198	283
Fall 2008	28	237	1	11	8	0	32	31	0	1	181	265
Fall 2009	26	255	0	12	13	0	34	32	0	2	188	281
Fall 2010	26	288	0	9	13	0	43	30	0	7	212	314
Fall 2011	35	302	1	9	11	0	45	29	4	10	228	337
Fall 2012	45	309	2	13	15	0	44	23	13	10	234	354
Fall 2013	57	339	2	15	20	2	52	28	10	12	255	396
10-Year Total	339	2619	10	100	151	2	358	320	27	54	1936	2958
10-Year Change	24	140	2	9	-8	2	26	-17	10	10	130	164
10-Year % Change	73%	70%	n/a	150%	-29%	n/a	100%	-38%	n/a	n/a	104%	71%
Projection totals may not foot due to rounding.												
Fall 2014 (Preliminary)	58	343	2	15	20	2	53	29	10	12	258	401
Fall 2015 (Projected)	58	347	2	15	20	2	53	29	10	12	261	405
Fall 2016 (Projected)	59	351	2	15	21	2	54	30	10	12	264	410
Fall 2017 (Projected)	60	355	2	16	21	2	54	30	10	13	267	415
Fall 2018 (Projected)	60	359	2	16	21	2	55	31	11	13	270	420
Fall 2019 (Projected)	61	364	2	16	21	2	56	31	11	13	273	425
15-Year Projected Total	695	4738	0	22	193	275	14	683	499	89	129	3528	5433
15-Year Projected Change	28	165	2	10	-7	2	30	-14	11	11	148	193
15-Yr Projected % Change	85%	83%	n/a	n/a	-24%	n/a	114%	-31%	n/a	n/a	118%	83%

Enrollment data provided by Jason Jones, State University System of Florida

Projections provided by Rick Burnett of FSU and Kwadwo Owusu-Aduemiri of FAMU

Report prepared by CBT Consultants

NOTE: This report includes Biomedical, Chemical, Civil, Computer, Electrical, Industrial and Mechanical Engineering headcounts. Headcounts for Agricultural Engineering are not included, as they are not part of the Joint College.

FLORIDA A&M UNIVERSITY
TOTAL ENGINEERING UNDERGRADUATE HEADCOUNT

Undergraduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Fall 2004	155	427	0	2	542	0	2	26	0	0	10	582
Fall 2005	119	374	0	2	460	0	2	18	0	0	11	493
Fall 2006	98	332	0	5	406	0	0	8	0	0	11	430
Fall 2007	92	343	2	4	397	0	3	14	0	0	15	435
Fall 2008	106	365	4	2	432	0	9	13	0	0	11	471
Fall 2009	101	371	2	3	437	0	9	10	0	0	11	472
Fall 2010	115	390	4	5	460	0	6	10	0	0	20	505
Fall 2011	106	365	3	1	434	0	4	11	0	0	18	471
Fall 2012	93	286	1	1	338	0	8	12	0	0	19	379
Fall 2013	91	230	1	1	289	0	6	8	0	0	16	321
10-Year Total	1076	3483	17	26	4195	0	49	130	0	0	142	4559
10-Year Change	-64	-197	1	-1	-253	0	4	-18	0	0	6	-261
10-Year % Change	-41%	-46%	n/a	-50%	-47%	n/a	200%	-69%	n/a	n/a	60%	-45%
Projection totals may not foot due to rounding.												
Fall 2014 (Preliminary)	84	251	1	1	308	0	4	11	0	0	10	335
Fall 2015 (Projected)	93	270	1	1	333	0	4	12	0	0	11	363
Fall 2016 (Projected)	102	289	1	2	359	0	5	13	0	0	12	391
Fall 2017 (Projected)	110	309	1	2	385	0	5	14	0	0	13	419
Fall 2018 (Projected)	118	330	1	2	411	0	5	15	0	0	14	448
Fall 2019 (Projected)	125	341	1	2	428	0	5	16	0	0	14	466
15-Year Projected Total	1708	5273	21	36	6419	0	77	212	0	0	216	6981
15-Year Projected Change	-30	-86	1	0	-114	0	3	-10	0	0	4	-116
15-Yr Projected % Change	-19%	-20%	n/a	0%	-21%	n/a	172%	-39%	n/a	n/a	42%	-20%

Enrollment data provided by Jason Jones, State University System of Florida

Projections provided by Rick Burnett of FSU and Kwadwo Owusu-Aduemiri of FAMU

Report prepared by CBT Consultants

Table 2D | **FAMU-FSU Joint College of Engineering Study** | **RFP #2D**

Joint College Headcount Enrollment

By Gender, Race/Ethnicity, and Degree Level for Fall 2003 through Fall 2019 (Projected)

NOTE: This report includes Biomedical, Chemical, Civil, Computer, Electrical, Industrial and Mechanical Engineering headcounts. Headcounts for Agricultural Engineering are not included, as they are not part of the Joint College.

FLORIDA A&M UNIVERSITY
TOTAL GRADUATE HEADCOUNT ENROLLMENT

Undergraduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Fall 2004	12	44	0	2	36	0	1	16	0	0	1	56
Fall 2005	7	32	0	1	27	0	2	9	0	0	0	39
Fall 2006	2	34	0	0	28	0	2	5	0	0	1	36
Fall 2007	3	27	0	0	23	0	1	5	0	0	1	30
Fall 2008	9	20	0	0	23	0	0	6	0	0	0	29
Fall 2009	12	23	0	1	28	0	0	6	0	0	0	35
Fall 2010	17	18	0	0	30	0	0	4	0	0	1	35
Fall 2011	16	15	0	1	24	0	0	4	1	0	1	31
Fall 2012	15	11	0	0	23	0	0	3	0	0	0	26
Fall 2013	11	13	0	0	22	0	0	2	0	0	0	24
10-Year Total	104	237	0	5	264	0	6	60	1	0	5	341
10-Year Change	-1	-31	0	-2	-14	0	-1	-14	0	0	-1	-32
10-Year % Change	-8%	-70%	n/a	-100%	-39%	n/a	-100%	-88%	n/a	n/a	-100%	-57%
Projection totals may not foot due to rounding.												
Fall 2014 (Preliminary)	9	21	0	0	23	0	0	6	0	0	1	30
Fall 2015 (Projected)	12	29	0	1	31	0	1	8	0	0	1	41
Fall 2016 (Projected)	15	35	0	1	38	0	1	10	0	0	1	50
Fall 2017 (Projected)	18	43	0	1	46	0	1	12	0	0	1	61
Fall 2018 (Projected)	21	49	0	1	53	0	1	13	0	0	1	70
Fall 2019 (Projected)	23	56	0	1	60	0	1	15	0	0	1	79
15-Year Projected Total	202	470	0	10	514	0	11	123	2	0	11	672
15-Year Projected Change	11	12	0	-1	24	0	0	-1	0	0	0	23
15-Yr Projected % Change	95%	26%	n/a	-34%	66%	n/a	24%	-6%	n/a	n/a	35%	41%

Enrollment data provided by Jason Jones, State University System of Florida

Projections provided by Rick Burnett of FSU and Kwadwo Owusu-Aduemiri of FAMU

Report prepared by CBT Consultants

Table 2D | **FAMU-FSU Joint College of Engineering Study** | **RFP #2D**

Joint College Headcount Enrollment

By Gender, Race/Ethnicity, and Degree Level for Fall 2003 through Fall 2019 (Projected)

NOTE: This report includes Biomedical, Chemical, Civil, Computer, Electrical, Industrial and Mechanical Engineering headcounts. Headcounts for Agricultural Engineering are not included, as they are not part of the Joint College.

FLORIDA A&M UNIVERSITY
TOTAL HEADCOUNT ENROLLMENT

Undergraduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Fall 2004	167	471	0	4	578	0	3	42	0	0	11	638
Fall 2005	126	406	0	3	487	0	4	27	0	0	11	532
Fall 2006	100	366	0	5	434	0	2	13	0	0	12	466
Fall 2007	95	370	2	4	420	0	4	19	0	0	16	465
Fall 2008	115	385	4	2	455	0	9	19	0	0	11	500
Fall 2009	113	394	2	4	465	0	9	16	0	0	11	507
Fall 2010	132	408	4	5	490	0	6	14	0	0	21	540
Fall 2011	122	380	3	2	458	0	4	15	1	0	19	502
Fall 2012	108	297	1	1	361	0	8	15	0	0	19	405
Fall 2013	102	243	1	1	311	0	6	10	0	0	16	345
10-Year Total	1180	3720	17	31	4459	0	55	190	1	0	147	4900
10-Year Change	-65	-228	1	-3	-267	0	3	-32	0	0	5	-293
10-Year % Change	-39%	-48%	n/a	-75%	-46%	n/a	100%	-76%	n/a	n/a	45%	-46%
Projection totals may not foot due to rounding.												
Fall 2014 (Preliminary)	93	272	1	2	330	0	4	17	0	0	11	365
Fall 2015 (Projected)	105	299	1	2	364	0	5	20	0	0	12	404
Fall 2016 (Projected)	117	324	1	2	397	0	5	23	0	0	13	441
Fall 2017 (Projected)	128	352	1	3	431	0	6	26	0	0	14	480
Fall 2018 (Projected)	139	379	1	3	464	0	6	29	0	0	15	518
Fall 2019 (Projected)	148	397	1	3	487	0	7	31	0	0	16	545
15-Year Projected Total	1910	5743	21	46	6933	0	89	335	2	0	226	7653
15-Year Projected Change	-19	-74	1	-1	-91	0	4	-11	0	0	5	-93
15-Yr Projected % Change	-11%	-16%	n/a	-20%	-16%	n/a	123%	-26%	n/a	n/a	42%	-15%

Enrollment data provided by Jason Jones, State University System of Florida

Projections provided by Rick Burnett of FSU and Kwadwo Owusu-Aduemiri of FAMU

Report prepared by CBT Consultants

Table 2D | **FAMU-FSU Joint College of Engineering Study** | **RFP #2D**

Joint College Headcount Enrollment

By Gender, Race/Ethnicity, and Degree Level for Fall 2003 through Fall 2019 (Projected)

NOTE: This report includes Biomedical, Chemical, Civil, Computer, Electrical, Industrial and Mechanical Engineering headcounts. Headcounts for FSU's 7,020 "Engineering, Other" students (freshmen and sophomores who have not declared a major) and for the 5 Systems Engineering graduate students at FSU are excluded.

FLORIDA STATE UNIVERSITY

TOTAL ENGINEERING UNDERGRADUATE HEADCOUNT (excluding "Engineering, Other")

Undergraduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Fall 2004	171	630	3	33	135	0	135	19	0	7	469	801
Fall 2005	169	596	2	39	108	0	125	19	0	7	465	765
Fall 2006	159	599	5	40	84	0	92	38	0	8	491	758
Fall 2007	170	597	4	43	85	0	85	30	0	6	514	767
Fall 2008	164	581	3	40	59	0	90	37	0	4	512	745
Fall 2009	181	671	4	40	81	0	103	34	0	5	585	852
Fall 2010	170	724	5	41	84	0	122	33	0	16	593	894
Fall 2011	180	768	6	41	78	0	137	35	13	18	620	948
Fall 2012	200	792	4	53	77	0	143	32	23	20	640	992
Fall 2013	243	866	5	52	88	5	164	57	27	23	688	1109
10-Year Total	1807	6824	41	422	879	5	1196	334	63	114	5577	8631
10-Year Change	72	236	2	19	-47	5	29	38	27	16	219	308
10-Year % Change	42%	37%	67%	58%	-35%	n/a	21%	200%	n/a	229%	47%	38%
Projection totals may not foot due to rounding.												
Fall 2014 (Preliminary)	246	874	4	53	89	4	165	57	28	23	695	1119
Fall 2015 (Projected)	247	884	4	54	89	4	167	58	28	23	703	1130
Fall 2016 (Projected)	250	892	4	54	90	4	169	58	28	23	709	1142
Fall 2017 (Projected)	253	901	4	54	92	4	171	59	29	24	716	1154
Fall 2018 (Projected)	256	910	4	56	93	4	172	59	29	24	722	1164
Fall 2019 (Projected)	258	919	4	56	94	4	174	61	29	24	730	1177
15-Year Projected Total	3317	12204	66	749	1426	30	2214	686	234	255	9852	15517
15-Year Projected Change	87	289	1	23	-41	4	39	42	29	17	261	376
15-Yr Projected % Change	51%	46%	n/a	70%	-31%	n/a	29%	223%	n/a	n/a	56%	47%

Enrollment data provided by Jason Jones, State University System of Florida

Projections provided by Rick Burnett of FSU and Kwadwo Owusu-Aduemiri of FAMU

Report prepared by CBT Consultants

Table 2D | **FAMU-FSU Joint College of Engineering Study** | **RFP #2D**

Joint College Headcount Enrollment

By Gender, Race/Ethnicity, and Degree Level for Fall 2003 through Fall 2019 (Projected)

NOTE: This report includes Biomedical, Chemical, Civil, Computer, Electrical, Industrial and Mechanical Engineering headcounts. Headcounts for FSU's 7,020 "Engineering, Other" students (freshmen and sophomores who have not declared a major) and for the 5 Systems Engineering graduate students at FSU are excluded.

FLORIDA STATE UNIVERSITY

TOTAL GRADUATE HEADCOUNT ENROLLMENT

Undergraduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Fall 2004	50	178	0	8	19	0	10	127	0	4	60	228
Fall 2005	55	179	0	9	24	0	14	114	0	5	68	234
Fall 2006	53	180	0	6	20	0	15	124	0	3	65	233
Fall 2007	52	180	1	5	16	0	13	130	0	1	66	232
Fall 2008	40	175	1	5	12	0	12	124	0	2	59	215
Fall 2009	46	179	0	6	14	0	15	127	0	1	62	225
Fall 2010	40	189	1	4	10	0	17	111	0	2	84	229
Fall 2011	43	203	0	2	8	0	17	117	0	3	99	246
Fall 2012	37	207	0	5	12	0	17	114	0	4	92	244
Fall 2013	42	204	0	5	10	0	17	121	1	7	85	246
10-Year Total	458	1874	3	55	145	0	147	1209	1	32	740	2332
10-Year Change	-8	26	0	-3	-9	0	7	-6	1	3	25	18
10-Year % Change	-16%	15%	n/a	-38%	-47%	n/a	70%	-5%	n/a	n/a	42%	8%
Projection totals may not foot due to rounding.												
Fall 2014 (Preliminary)	43	208	0	5	10	0	17	123	0	6	87	250
Fall 2015 (Projected)	44	213	0	5	10	0	18	125	0	6	90	256
Fall 2016 (Projected)	45	217	0	5	11	0	18	127	0	7	92	261
Fall 2017 (Projected)	46	221	0	5	11	0	18	131	0	6	93	266
Fall 2018 (Projected)	47	225	0	5	11	0	19	133	0	8	95	271
Fall 2019 (Projected)	48	230	0	5	11	0	19	135	0	8	97	277
15-Year Projected Total	730	3188	3	87	209	0	256	1983	1	73	1294	3905
15-Year Projected Change	-2	52	0	-3	-8	0	9	8	0	4	37	49
15-Yr Projected % Change	-5%	29%	n/a	-31%	-41%	n/a	90%	6%	n/a	93%	61%	21%

Enrollment data provided by Jason Jones, State University System of Florida

Projections provided by Rick Burnett of FSU and Kwadwo Owusu-Aduemiri of FAMU

Report prepared by CBT Consultants

Table 2D | **FAMU-FSU Joint College of Engineering Study** | **RFP #2D**

Joint College Headcount Enrollment

By Gender, Race/Ethnicity, and Degree Level for Fall 2003 through Fall 2019 (Projected)

NOTE: This report includes Biomedical, Chemical, Civil, Computer, Electrical, Industrial and Mechanical Engineering headcounts. Headcounts for FSU's 7,020 "Engineering, Other" students (freshmen and sophomores who have not declared a major) and for the 5 Systems Engineering graduate students at FSU are excluded.

FLORIDA STATE UNIVERSITY

TOTAL HEADCOUNT ENROLLMENT (excluding "Engineering, Other")

Undergraduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Fall 2004	221	808	3	41	154	0	145	146	0	11	529	1029
Fall 2005	224	775	2	48	132	0	139	133	0	12	533	999
Fall 2006	212	779	5	46	104	0	107	162	0	11	556	991
Fall 2007	222	777	5	48	101	0	98	160	0	7	580	999
Fall 2008	204	756	4	45	71	0	102	161	0	6	571	960
Fall 2009	227	850	4	46	95	0	118	161	0	6	647	1077
Fall 2010	210	913	6	45	94	0	139	144	0	18	677	1123
Fall 2011	223	971	6	43	86	0	154	152	13	21	719	1194
Fall 2012	237	999	4	58	89	0	160	146	23	24	732	1236
Fall 2013	285	1070	5	57	98	5	181	178	28	30	773	1355
10-Year Total	2265	8698	44	477	1024	5	1343	1543	64	146	6317	10963
10-Year Change	64	262	2	16	-56	5	36	32	28	19	244	326
10-Year % Change	29%	32%	n/a	39%	-36%	n/a	25%	22%	n/a	173%	46%	32%
Projection totals may not foot due to rounding.												
Fall 2014 (Preliminary)	289	1082	4	58	99	4	182	180	28	29	782	1369
Fall 2015 (Projected)	292	1097	4	59	100	4	185	183	28	30	792	1386
Fall 2016 (Projected)	295	1109	4	59	100	4	187	185	28	31	801	1402
Fall 2017 (Projected)	299	1122	4	60	103	4	189	189	29	30	810	1419
Fall 2018 (Projected)	302	1135	4	61	104	4	191	192	29	31	817	1436
Fall 2019 (Projected)	305	1149	4	62	105	4	193	197	29	32	827	1453
15-Year Projected Total	4048	15392	69	836	1635	30	2470	2669	235	329	11146	19429
15-Year Projected Change	84	341	1	21	-49	4	48	51	29	21	298	424
15-Yr Projected % Change	38%	42%	42%	50%	-32%	n/a	33%	35%	n/a	188%	56%	41%

Enrollment data provided by Jason Jones, State University System of Florida

Projections provided by Rick Burnett of FSU and Kwadwo Owusu-Aduemiri of FAMU

Report prepared by CBT Consultants

Table 2D | **FAMU-FSU Joint College of Engineering Study** | **RFP #2D**

Joint College Headcount Enrollment

By Gender, Race/Ethnicity, and Degree Level for Fall 2003 through Fall 2019 (Projected)

NOTE: This report includes Biomedical, Chemical, Civil, Computer, Electrical, Industrial and Mechanical Engineering headcounts. Headcounts for Agricultural Engineering are not included, as they are not part of the Joint College.

FLORIDA A&M UNIVERSITY
TOTAL ENGINEERING UNDERGRADUATE HEADCOUNT

Undergraduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Fall 2004	155	427	0	2	542	0	2	26	0	0	10	582
Fall 2005	119	374	0	2	460	0	2	18	0	0	11	493
Fall 2006	98	332	0	5	406	0	0	8	0	0	11	430
Fall 2007	92	343	2	4	397	0	3	14	0	0	15	435
Fall 2008	106	365	4	2	432	0	9	13	0	0	11	471
Fall 2009	101	371	2	3	437	0	9	10	0	0	11	472
Fall 2010	115	390	4	5	460	0	6	10	0	0	20	505
Fall 2011	106	365	3	1	434	0	4	11	0	0	18	471
Fall 2012	93	286	1	1	338	0	8	12	0	0	19	379
Fall 2013	91	230	1	1	289	0	6	8	0	0	16	321
10-Year Total	1076	3483	17	26	4195	0	49	130	0	0	142	4559
10-Year Change	-64	-197	1	-1	-253	0	4	-18	0	0	6	-261
10-Year % Change	-41%	-46%	n/a	-50%	-47%	n/a	200%	-69%	n/a	n/a	60%	-45%
Projection totals may not foot due to rounding.												
Fall 2014 (Preliminary)	84	251	1	1	308	0	4	11	0	0	10	335
Fall 2015 (Projected)	93	270	1	1	333	0	4	12	0	0	11	363
Fall 2016 (Projected)	102	289	1	2	359	0	5	13	0	0	12	391
Fall 2017 (Projected)	110	309	1	2	385	0	5	14	0	0	13	419
Fall 2018 (Projected)	118	330	1	2	411	0	5	15	0	0	14	448
Fall 2019 (Projected)	125	341	1	2	428	0	5	16	0	0	14	466
15-Year Projected Total	1708	5273	21	36	6419	0	77	212	0	0	216	6981
15-Year Projected Change	-30	-86	1	0	-114	0	3	-10	0	0	4	-116
15-Yr Projected % Change	-19%	-20%	n/a	-6%	-21%	n/a	172%	-39%	n/a	n/a	42%	-20%

Enrollment data provided by Jason Jones, State University System of Florida

Projections provided by Rick Burnett of FSU and Kwadwo Owusu-Aduemiri of FAMU

Report prepared by CBT Consultants

Table 2D | **FAMU-FSU Joint College of Engineering Study** | **RFP #2D**

Joint College Headcount Enrollment

By Gender, Race/Ethnicity, and Degree Level for Fall 2003 through Fall 2019 (Projected)

NOTE: This report includes Biomedical, Chemical, Civil, Computer, Electrical, Industrial and Mechanical Engineering headcounts. Headcounts for Agricultural Engineering are not included, as they are not part of the Joint College.

FLORIDA A&M UNIVERSITY
TOTAL GRADUATE HEADCOUNT ENROLLMENT

Undergraduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Fall 2004	12	44	0	2	36	0	1	16	0	0	1	56
Fall 2005	7	32	0	1	27	0	2	9	0	0	0	39
Fall 2006	2	34	0	0	28	0	2	5	0	0	1	36
Fall 2007	3	27	0	0	23	0	1	5	0	0	1	30
Fall 2008	9	20	0	0	23	0	0	6	0	0	0	29
Fall 2009	12	23	0	1	28	0	0	6	0	0	0	35
Fall 2010	17	18	0	0	30	0	0	4	0	0	1	35
Fall 2011	16	15	0	1	24	0	0	4	1	0	1	31
Fall 2012	15	11	0	0	23	0	0	3	0	0	0	26
Fall 2013	11	13	0	0	22	0	0	2	0	0	0	24
10-Year Total	104	237	0	5	264	0	6	60	1	0	5	341
10-Year Change	-1	-31	0	-2	-14	0	-1	-14	0	0	-1	-32
10-Year % Change	-8%	-70%	n/a	-100%	-39%	n/a	-100%	-88%	n/a	n/a	-100%	-57%
Projection totals may not foot due to rounding.												
Fall 2014 (Preliminary)	9	21	0	0	23	0	0	6	0	0	1	30
Fall 2015 (Projected)	12	29	0	1	31	0	1	8	0	0	1	41
Fall 2016 (Projected)	15	35	0	1	38	0	1	10	0	0	1	50
Fall 2017 (Projected)	18	43	0	1	46	0	1	12	0	0	1	61
Fall 2018 (Projected)	21	49	0	1	53	0	1	13	0	0	1	70
Fall 2019 (Projected)	23	56	0	1	60	0	1	15	0	0	1	79
15-Year Projected Total	202	470	0	10	514	0	11	123	2	0	11	672
15-Year Projected Change	11	12	0	-1	24	0	0	-1	0	0	0	23
15-Yr Projected % Change	95%	26%	n/a	-34%	66%	n/a	24%	-6%	n/a	n/a	35%	41%

Enrollment data provided by Jason Jones, State University System of Florida

Projections provided by Rick Burnett of FSU and Kwadwo Owusu-Aduemiri of FAMU

Report prepared by CBT Consultants

Table 2D	FAMU-FSU Joint College of Engineering Study Joint College Headcount Enrollment By Gender, Race/Ethnicity, and Degree Level for Fall 2003 through Fall 2019 (Projected)	RFP #2D

NOTE: This report includes Biomedical, Chemical, Civil, Computer, Electrical, Industrial and Mechanical Engineering headcounts. Headcounts for Agricultural Engineering are not included, as they are not part of the Joint College.

FLORIDA A&M UNIVERSITY
TOTAL HEADCOUNT ENROLLMENT

Undergraduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Fall 2004	167	471	0	4	578	0	3	42	0	0	11	638
Fall 2005	126	406	0	3	487	0	4	27	0	0	11	532
Fall 2006	100	366	0	5	434	0	2	13	0	0	12	466
Fall 2007	95	370	2	4	420	0	4	19	0	0	16	465
Fall 2008	115	385	4	2	455	0	9	19	0	0	11	500
Fall 2009	113	394	2	4	465	0	9	16	0	0	11	507
Fall 2010	132	408	4	5	490	0	6	14	0	0	21	540
Fall 2011	122	380	3	2	458	0	4	15	1	0	19	502
Fall 2012	108	297	1	1	361	0	8	15	0	0	19	405
Fall 2013	102	243	1	1	311	0	6	10	0	0	16	345
10-Year Total	1180	3720	17	31	4459	0	55	190	1	0	147	4900
10-Year Change	-65	-228	1	-3	-267	0	3	-32	0	0	5	-293
10-Year % Change	-39%	-48%	n/a	-75%	-46%	n/a	100%	-76%	n/a	n/a	45%	-46%
Projection totals may not foot due to rounding.												
Fall 2014 (Preliminary)	93	272	1	2	330	0	4	17	0	0	11	365
Fall 2015 (Projected)	105	299	1	2	364	0	5	20	0	0	12	404
Fall 2016 (Projected)	117	324	1	2	397	0	5	23	0	0	13	441
Fall 2017 (Projected)	128	352	1	3	431	0	6	26	0	0	14	480
Fall 2018 (Projected)	139	379	1	3	464	0	6	29	0	0	15	518
Fall 2019 (Projected)	148	397	1	3	487	0	7	31	0	0	16	545
15-Year Projected Total	1910	5743	21	46	6933	0	89	335	2	0	226	7653
15-Year Projected Change	-19	-74	1	-1	-91	0	4	-11	0	0	5	-93
15-Yr Projected % Change	-11%	-16%	n/a	n/a	-16%	n/a	n/a	-26%	n/a	n/a	n/a	-15%

Enrollment data provided by Jason Jones, State University System of Florida

Projections provided by Rick Burnett of FSU and Kwadwo Owusu-Aduemiri of FAMU

Report prepared by CBT Consultants

NOTE: This report includes Biomedical, Chemical, Civil, Computer, Electrical, Industrial and Mechanical Engineering headcounts. Headcounts for FSU's 7,020 "Engineering, Other" students (freshmen and sophomores who have not declared a major) have been allocated proportionately to each category The 5 Systems Engineering graduate students at FSU are excluded.

FLORIDA STATE UNIVERSITY
TOTAL ENGINEERING UNDERGRADUATE HEADCOUNT (including "Engineering, Other")

Undergraduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Fall 2004	298	1100	5	58	236	0	236	33	0	12	819	1398
Fall 2005	320	1129	4	74	205	0	237	36	0	13	881	1449
Fall 2006	305	1149	10	77	161	0	176	73	0	15	942	1454
Fall 2007	326	1145	8	82	163	0	163	58	0	12	986	1471
Fall 2008	306	1082	6	75	110	0	168	69	0	7	954	1388
Fall 2009	322	1193	7	71	144	0	183	60	0	9	1040	1515
Fall 2010	307	1305	9	74	151	0	220	60	0	29	1069	1612
Fall 2011	323	1377	11	74	140	0	246	63	23	32	1112	1700
Fall 2012	356	1412	7	94	137	0	255	57	41	36	1141	1768
Fall 2013	415	1481	9	89	150	9	280	97	46	39	1176	1896
10-Year Total	3278	12373	74	767	1597	9	2164	606	110	205	10119	15651
10-Year Change	117	381	3	31	-85	9	45	64	46	27	358	498
10-Year % Change	39%	35%	63%	54%	-36%	n/a	19%	194%	n/a	222%	44%	36%
Projection totals may not foot due to rounding.												
Fall 2014 (Preliminary)	420	1495	9	90	152	9	283	98	47	40	1188	1915
Fall 2015 (Projected)	424	1510	9	91	153	9	286	99	47	40	1200	1934
Fall 2016 (Projected)	428	1525	9	92	155	9	289	100	48	41	1212	1953
Fall 2017 (Projected)	432	1541	9	93	157	9	292	101	48	41	1224	1973
Fall 2018 (Projected)	437	1556	9	93	158	9	295	102	49	41	1236	1993
Fall 2019 (Projected)	441	1572	9	94	160	9	298	103	49	42	1249	2013
15-Year Projected Total	5860	21572	128	1320	2532	62	3906	1211	397	449	17428	27432
15-Year Projected Change	143	472	4	37	-76	9	62	70	49	30	430	615
15-Yr Projected % Change	48%	43%	73%	64%	-32%	n/a	26%	212%	n/a	242%	53%	44%

Enrollment data provided by Jason Jones, State University System of Florida

Projections provided by Rick Burnett of FSU and Kwadwo Owusu-Aduemiri of FAMU

Report prepared by CBT Consultants

Table 2D | **FAMU-FSU Joint College of Engineering Study** | **RFP #2D**

Joint College Headcount Enrollment

By Gender, Race/Ethnicity, and Degree Level for Fall 2003 through Fall 2019 (Projected)

NOTE: This report includes Biomedical, Chemical, Civil, Computer, Electrical, Industrial and Mechanical Engineering headcounts. Headcounts for FSU's 7,020 "Engineering, Other" students (freshmen and sophomores who have not declared a major) have been allocated proportionately to each category The 5 Systems Engineering graduate students at FSU are excluded.

FLORIDA STATE UNIVERSITY

TOTAL GRADUATE HEADCOUNT ENROLLMENT

Undergraduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Fall 2004	50	178	0	8	19	0	10	127	0	4	60	228
Fall 2005	55	179	0	9	24	0	14	114	0	5	68	234
Fall 2006	53	180	0	6	20	0	15	124	0	3	65	233
Fall 2007	52	180	1	5	16	0	13	130	0	1	66	232
Fall 2008	40	175	1	5	12	0	12	124	0	2	59	215
Fall 2009	46	179	0	6	14	0	15	127	0	1	62	225
Fall 2010	40	189	1	4	10	0	17	111	0	2	84	229
Fall 2011	43	203	0	2	8	0	17	117	0	3	99	246
Fall 2012	37	207	0	5	12	0	17	114	0	4	92	244
Fall 2013	42	204	0	5	10	0	17	121	1	7	85	246
10-Year Total	458	1874	3	55	145	0	147	1209	1	32	740	2332
10-Year Change	-8	26	0	-3	-9	0	7	-6	1	3	25	18
10-Year % Change	-16%	15%	n/a	-38%	-47%	n/a	70%	-5%	n/a	75%	42%	8%
Projection totals may not foot due to rounding.												
Fall 2014 (Preliminary)	43	208	0	5	10	0	17	123	0	6	87	250
Fall 2015 (Projected)	44	213	0	5	10	0	18	125	0	6	90	256
Fall 2016 (Projected)	45	217	0	5	11	0	18	127	0	7	92	261
Fall 2017 (Projected)	46	221	0	5	11	0	18	131	0	6	93	266
Fall 2018 (Projected)	47	225	0	5	11	0	19	133	0	8	95	271
Fall 2019 (Projected)	48	230	0	5	11	0	19	135	0	8	97	277
15-Year Projected Total	730	3188	3	87	209	0	256	1983	1	73	1294	3912
15-Year Projected Change	-2	52	0	-3	-8	0	9	8	0	4	37	49
15-Yr Projected % Change	-5%	29%	n/a	-31%	-41%	n/a	90%	6%	n/a	93%	61%	21%

Enrollment data provided by Jason Jones, State University System of Florida

Projections provided by Rick Burnett of FSU and Kwadwo Owusu-Aduemiri of FAMU

Report prepared by CBT Consultants

Table 2D | **FAMU-FSU Joint College of Engineering Study** | **RFP #2D**

Joint College Headcount Enrollment

By Gender, Race/Ethnicity, and Degree Level for Fall 2003 through Fall 2019 (Projected)

NOTE: This report includes Biomedical, Chemical, Civil, Computer, Electrical, Industrial and Mechanical Engineering headcounts. Headcounts for FSU's 7,020 "Engineering, Other" students (freshmen and sophomores who have not declared a major) have been allocated proportionately to each category The 5 Systems Engineering graduate students at FSU are excluded.

FLORIDA STATE UNIVERSITY

TOTAL HEADCOUNT ENROLLMENT (including "Engineering, Other")

Undergraduate Enrollment	Female	Male	Amer Indian	Asian	Black or Af Am	HI/Pac Islander	Hispanic	Non-Res Alien	Two or More	Un-known	White	TOTAL
Fall 2004	348	1278	5	66	255	0	246	160	0	16	879	1626
Fall 2005	375	1308	4	83	229	0	251	150	0	18	949	1683
Fall 2006	358	1329	10	83	181	0	191	197	0	18	1007	1687
Fall 2007	378	1325	9	87	179	0	176	188	0	13	1052	1703
Fall 2008	346	1257	7	80	122	0	180	193	0	9	1013	1603
Fall 2009	368	1372	7	77	158	0	198	187	0	10	1102	1740
Fall 2010	347	1494	10	78	161	0	237	171	0	31	1153	1841
Fall 2011	366	1580	11	76	148	0	263	180	23	35	1211	1946
Fall 2012	393	1619	7	99	149	0	272	171	41	40	1233	2012
Fall 2013	457	1685	9	94	160	9	297	218	47	46	1261	2142
10-Year Total	3736	14247	77	822	1742	9	2311	1815	111	237	10859	17983
10-Year Change	109	407	3	28	-94	9	52	58	47	30	383	516
10-Year % Change	31%	32%	63%	43%	-37%	n/a	21%	36%	n/a	186%	44%	32%
Projection totals may not foot due to rounding.												
Fall 2014 (Preliminary)	462	1703	9	95	162	9	300	221	47	46	1275	2165
Fall 2015 (Projected)	468	1723	9	96	164	9	304	224	47	46	1290	2190
Fall 2016 (Projected)	473	1742	9	97	166	9	307	228	48	48	1303	2214
Fall 2017 (Projected)	478	1762	9	98	167	9	310	232	48	47	1317	2239
Fall 2018 (Projected)	483	1781	9	99	169	9	313	235	49	49	1331	2264
Fall 2019 (Projected)	489	1802	9	100	171	9	317	239	49	49	1345	2289
15-Year Projected Total	6590	24760	131	1406	2741	62	4162	3194	398	523	18722	31344
15-Year Projected Change	140	524	4	34	-84	9	71	79	49	33	467	663
15-Yr Projected % Change	40%	41%	73%	52%	-33%	n/a	29%	49%	n/a	205%	53%	41%

Enrollment data provided by Jason Jones, State University System of Florida

Projections provided by Rick Burnett of FSU and Kwadwo Owusu-Aduemiri of FAMU

Report prepared by CBT Consultants

Table 2E	FAMU-FSU Joint College of Engineering Study Undergraduate Admissions Requirements	RFP #2E

Degree	CIP Code	Minimum High School GPA	Minimum ACT/SAT	Prerequisite Courses/Grade Minimum	Other Requirements
FSU Undergrad Engineering Degrees	14.****	3.3	24 ACT	A grade of C or better in EGN 1004L (1) First Year Engineering Lab; and, a grade of C or better, from any institution attended, in Calculus I, Calculus II, General Chemistry I with Lab, and General Physics I with Lab. A single repeated attempt in only one of these courses is permitted.	Annual Units From HS: 4 English, 3 Math, 3 Nat Sci, 3 Social Sci, 2 Foreign Lang Admission is very limited to students with Ds, Fs or repeats in high school, students who do not complete math above Alg II, students with weak academic schedules or weak senior schedules.
FAMU Undergrad Engineering Degrees	14.****	2.0	SAT - Math - 460, Critical Reading - 460, Writing - 440 or ACT Reading - 19, Math - 19, English/Writing 18	Must earn a grade of "C" or better on the first attempt of the courses designated in our Pre-Engineering curriculum Calculus I, Calculus II, General Physics I*, General Chemistry I, Pre-Engineering Lab One repeated attempt out of all pre-engineering courses is permitted major in Chemical or Biomedical Engineering shall replace Physics I with General Chemistry II for their Pre-Engineering sequence Transfer students who will earn an AA prior to enrollment at the College must have completed at least Calculus I and at least one other pre-engineering course (excluding Pre-Engineering Lab	1. Application fee of $30 (non-refundable or fee waiver for FL residents only) 2. Official transcripts 3. GED recipients must submit the high school transcript 4. Two letters of recommendation 5. SAT or ACT test scores 6. Essay (the essay is part of the application). "What qualities or unique characteristics do you possess that would allow you to contribute to the university community?"

Source: FAMU and FSU Institutional Research

Prepared by CBT Consultants, September 2014 (2E)

Chemical and Biomedical Engineering Department

Degree Program:

MS	Biomedical Engineering	Chemical Engineering
Doctoral	Biomedical Engineering	Chemical Engineering

Dept. Admisison Requirements:

Min.GPA	*Min. GRE*	*TOEFL*	*Other Reqmts.*
		(for international students)	*apart from min. degree or coursework needed for admission*
			3 letters of recommendation
3.0/4.0	Verbal: 48%(150)	550 (paper based)	Transcripts from all schools attended
	Quant: 75% (158)	80 (internet based)	Statement of Purpose
	Combined 308		Current resume or curriculum vitae
			For international students: Check with the Department for any additional requirements.

Civil and Environmental Engineering Department

Degree Program:

MS	Civil Engineering
M.Eng.	Civil Engineering
Doctoral	Civil Engineering

Dept. Admisison Requirements:

Min.GPA	*Min. GRE*	*TOEFL*	*Other Reqmts.*
	(percentile)	*(for international students)*	*apart from min. degree or coursework needed for admission*
			3 letters of recommendation
3.0/4.0	Verbal: 25% (144) (MS/M.Eng)	550 (paper based)	Transcripts from all schools attended
	Verbal: 35% (147) (PhD Program)	213 (Comp. based)	Statement of Purpose
	Quant: 65% (153) (MS/M.Eng)	80 (internet based)	Current resume or curriculum vitae
	Quant: 70% (155) [PhD. Program]		
	GRE Substitutes for M.Eng.		**For International students:** Check with the Department for any
	1. Proof of passing NCEES (FE)		for any additional requirements.
	or PE Exam;		
	2. hold PE licensures in any state		

Electrical and Computer Engineering Department

Degree Program:

MS Electrical Engineering
M.Eng. Electrical Engineering

Dept. Admisison Requirements:

Min.GPA	*Min. GRE*	*TOEFL (for international students)*	*Other Reqmts. apart from min. degree or coursework needed for admission*
			3 letters of recommendation
3.0/4.0	Verbal: 145	550 (paper based)	Transcripts from all schools attended
	Quant: 148		Statement of Purpose
		80 (internet based)	Current resume or curriculum vitae
			International Students must also obtain:
			6.5 points in IELTS, 55 points in Pearson's
			Academic examination, **or** 77 points in MELAB
			examination.
			International Students applying for TA:
			TOELF score: min 26; OR
			SPEAK test at FSU: min 50;

Degree Program:

Doctoral Electrical Engineering

Dept. Admisison Requirements:

Min.GPA	*Min. GRE*	*TOEFL (for international students)*	*Other Reqmts. apart from min. degree or coursework needed for admission*
			3 letters of recommendation
3.3/4.0	Verbal: 145	550 (paper based)	Transcripts from all schools attended
	Quant: 148		Statement of Purpose
		80 (internet based)	Current resume or curriculum vitae
			International Students must also obtain:
			6.5 points in IELTS, 55 points in Pearson's
			Academic examination, **or** 77 points in MELAB
			examination.
			International Students applying for TA:
			TOELF score: min 26; OR
			SPEAK test at FSU: min 50;

Industrial and Manufacturing Engineering Department

Degree Program:

MSIE- Thesis Master of Science in Industrial Engineering

Dept. Admisison Requirements:

Min.GPA	*Min. GRE*	*Addtl. Scores*	*Other Reqmts.*
		(for international students)	*apart from min. degree or coursework needed for admission*
		TOEFL:	3 letters of recommendation
3.0/4.0	Verbal: (146)	80 (internet based)	Transcripts from all schools attended
	Quant: (155)	*or*	Statement of Purpose
		IELTS: >6.5	Current resume or curriculum vitae
			For International students: Check with the Department for any
			for any additional requirements.

Degree Program:

MSIE (Non-Thesis) Master of Science in Industrial Engineering
MSIE MSIE with specialization in Engineering Management
MSIE MSIE with specialization in Engineering Management of Orthotics and Prosthetics

Dept. Admisison Requirements:

Min.GPA	*Min. GRE*	*Addtl. Scores*	*Other Reqmts.*
	(percentile)	*(for international students)*	*apart from min. degree or coursework needed for admission*
3.0/4.0	Verbal: (146)	TOEFL:	3 letters of recommendation
	Quant:(151)	80 (internet based)	Transcripts from all schools attended
		or	Statement of Purpose
		IELTS: >6.5	Current resume or curriculum vitae
			For International students: Check with the Department for any
			for any additional requirements.

Degree Program:

BS-PhD Program Industrial Engineering
PhD Program Industrial Engineering

Dept. Admisison Requirements:

Min.GPA	*Min. GRE*	*Addtl. Scores*	*Other Reqmts.*
	(percentile)	*(for international students)*	*apart from min. degree or coursework needed for admission*
			3 letters of recommendation

3.4/4.0	Verbal: (146)	TOEFL:	Transcripts from all schools attended
	Quant:(155)	80 (internet based)	Statement of Purpose
		or	Current resume or curriculum vitae
		IELTS: >6.5	
			For International students: Check with the Department for any
			for any additional requirements.

Mechanical Engineering Department

Degree Program:

MS Mechanical Engineering
Doctoral Mechanical Engineering

Note: The Admissions requirements are similar for all degree options with MS and PhD. Program.

Dept. Admisison Requirements:

Min.GPA	*Min. GRE*	*Addtl. Scores*	*Other Reqmts.*
	(percentile)	*(for international students)*	*apart from min. degree or coursework needed for admission*
3.0/4.0	Verbal: (150)	TOEFL:	3 letters of recommendation
	Quant: (155)	80 (internet based) or	Transcripts from all schools attended
		550 (paper based) or	Statement of Purpose
		IELTS: >6.5 or	Current resume or curriculum vitae
		MELAB: 77 (FSU only)	
			For International students: Check with the Department for any
			for any additional requirements.

Table 2E-1 FAMU-FSU Joint College of Engineering Study RFP #2E-1
Engineering Freshmen Credentials for Past Three Fall Semesters

Because FSU freshmen engineering students are not assigned to a major, average scores by major are not available. The scores shown below are for all entering freshmen engineering students for the past three semesters.

FSU	CIP	Average High School GPA	Average ACT
FSU Average for Past Three Fall Semesters	14.xxxx	3.96	29.3

NOTE: Any SAT two-part score was converted to ACT using: http://www.act.org/aap/concordance/pdf/reference.pdf

FAMU Fall 2011	CIP	Average High School GPA	Average SAT	Average ACT
Agricultural Engineering	14.0301	2.54	1290	n/a
Chemical Engineering	14.0701	3.32	1498	22.3
Civil Engineering	14.0801	3.22	1480	22.8
Computer Engineering	14.0901	3.03	1402	21.6
Electrical Engineering	14.1001	3.16	1465	24.8
Mechanical Engineering	14.1901	3.09	1502	24.4
Industrial Engineering	14.3501	3.66	n/a	23.0

FAMU Fall 2012	CIP	Average High School GPA	Average SAT	Average ACT
Agricultural Engineering	14.0301	3.35	n/a	25.0
Chemical Engineering	14.0701	3.55	1656	23.3
Civil Engineering	14.0801	3.08	1463	19.6
Computer Engineering	14.0901	3.05	1387	22.2
Electrical Engineering	14.1001	3.58	1330	23.2
Mechanical Engineering	14.1901	3.22	1456	21.1
Industrial Engineering	14.3501	n/a	n/a	23.0

FAMU Fall 2013	CIP	Average High School GPA	Average SAT	Average ACT
Agricultural Engineering	14.0301	3.51	1325	19.7
Chemical Engineering	14.0701	3.46	1610	22.0
Civil Engineering	14.0801	3.4	1562	20.6
Computer Engineering	14.0901	3.42	1577	21.9
Electrical Engineering	14.1001	3.36	1400	21.2
Mechanical Engineering	14.1901	3.24	1542	21.4
Industrial Engineering	14.3501	3.25	1360	21.0

Source: FAMU and FSU Institutional Research

Prepared by CBT Consultants, September 2014 (2E-1)

Table 2E-1 FAMU-FSU Joint College of Engineering Study RFP #2E-1
Engineering New Graduate Student Credentials for Past Three Fall Semesters

FSU Average for Past Three Fall Semesters	Degree	CIP	Overall College GPA	Average GRE2
MASTERS	Biomedical Engineering	14.0501	n/a	n/a
	Chemical Engineering	14.0701	3.23	307
	Civil Engineering	14.0801	3.33	303
	Electrical Engineering	14.1001	3.36	309
	Mechanical Engineering	14.1901	3.35	310
	industrial Engineering	14.3501	3.23	307
DOCTORATE	Biomedical Engineering	14.0501	3.55	320
	Chemical Engineering	14.0701	3.41	313
	Civil Engineering	14.0801	3.02	323
	Electrical Engineering	14.1001	3.45	310
	Mechanical Engineering	14.1901	3.50	314
	industrial Engineering	14.3501	3.44	318

Any GRE subscore was converted to GRE2 using http://www.ets.org/gre/institutions/scores/interpret

FAMU Fall 2011	Degree	CIP	Overall College GPA	Average GRE	Average GRE2
MASTERS:	Civil Engineering	14.0801	3.50	1064	n/a
	Electrical Engineering	14.1001	3.50	n/a	n/a
DOCTORATES:	Chemical Engineering	14.0701	2.67	n/a	n/a

FAMU Fall 2012	Degree	CIP	Overall College GPA	GRE	GRE2
MASTERS:	Civil Engineering	14.0801	3.38	863	303
	Computer Engineering	14.1901	3.00		301
	Industrial Engineering	14.3501	3.13	n/a	294
DOCTORATES:	Civil Engineering	14.0801	3.26	n/a	303

FAMU Fall 2013	Degree	CIP	Overall College GPA	GRE	GRE2
MASTERS:	Chemical Engineering	14.0701	3.65		318
	Electrical Engineering	14.1001	2.77		293
DOCTORATES:	Civil Engineering	14.0801	3.00	1104	n/a

Source: FAMU and FSU Institutional Research

Prepared by CBT Consultants, September 2014 (2E-1)

Table 2F	FAMU-FSU Joint College of Engineering Study Faculty and Student Recruitment for the Joint College	RFP #2F

At the following recruiting events, FAMU and FSU recruit for the Joint College. The student decides where to attend.

Student Recruiting Events for Past Ten Years
Army Corp of Engineering Career Day - Booth
Boys and Girls State
College of Engineering Graduate Programs Promotional YouTube Videos- One for each academic department (5) plus one overview video.
College of Engineering Graduate Weekend
College of Engineering Promotional Materials
College of Engineering Prospective Student Tours
College of Engineering Recruitment Day (Graduate) - Booth
Engineering Challenge - High School Design Competition - Host
Florida Undergraduate Research Conference
FSU Day at Tallahassee Community College
FSU Football Special Recruiting Requests
FSU Ice-Cream Social
FSU Major Exploration Event
FSU Previews
GEM Consortium - Membership
Graduate Virtual Recruitment Fairs: Latin American, ASIA, Southeast US.
High School Counselors - Introduction to Engineering Meetings
High School Summer Camp Programs
JETS/TEAMS Competitions-Host Site
NASA College Recruitment Fair at Kennedy Space Flight Center
NASA Lunabotics Competition College Fair
National Society of Black Engineers Conference-Booth
Society of Women Engineers (SWE) Conference-Booth
STEM Recruitment Fair in Orlando
Summer Bridge Program
Sunshine Stae Scholars Conference-Booth
Teen Girls Leadership and Development Conference in Tallahassee (Pretty, Powerful and Professional)

Faculty Recruitment Processes for Past Ten Years
Recruitment of 8 faculty positions for FAMU and 29 for FSU, including advertising in national publications, travel related expenses, and other associated, miscellaneous costs.
Start-up packages to include lab equiipment, office space/renovation, graduate students, two years' summer salary, and other in-house technical /OPS support, computer equipment.

Source: FAMU and FSU Institutional Research, from R. Perry

Prepared by CBT Consultants , September 2014 (2F)

Table 2F	FAMU-FSU Joint College of Engineering Study Faculty and Student Recruitment for the Joint College	RFP #2F

Student recruitment is done jointly by FAMU and FSU for the Joint College.

Student Recruitment Estimated Costs for Past Ten Years

2012-2013	$15,000.00
2011-2012	$10,000.00
2010-2011	$10,000.00
2009-2010	$5,000.00
2008-2009	$5,000.00
2007-2008	$5,000.00
2006-2007	$5,000.00
2005-2006	$5,000.00
2004-2005	$5,000.00
2003-2004	n/a

NOTE: Base budget is approximately $5K per year for recruiting.

This is supplemented from other sources, including Carry Forward and Foundation Accounts.

Faculty Recruitment Estimated Costs for Past Ten Years

Academic Year	FAMU	FSU
2012-2013	$111,000.00	$1,266,000.00
2011-2012	$14,000.00	$844,000.00
2010-2011	$14,000.00	$0.00
2009-2010	$0.00	$0.00
2008-2009	$333,000.00	$633,000.00
2007-2008	$111,000.00	$1,477,000.00
2006-2007	$222,000.00	$844,000.00
2005-2006	$0.00	$422,000.00
2004-2005	$0.00	$422,000.00
2003-2004	$0.00	$211,000.00

Source: FAMU and FSU Institutional Research, from R. Perry

Prepared by CBT Consultants , September 2014 (2F)

Table 2G	FAMU-FSU Joint College of Engineering Study Current Research by FAMU Faculty Within The Joint College	RFP #2G

Current FAMU Research Projects	Funding Source	Project Begin	Project End	Principal Investigator	Department	Joint with FSU?
An Engineering Thermodynamic Aid for Viable Design and Control of Highly Dynamic Thermal Systems	Universal Technology Corporation	10/1/2013	8/21/2014	Juan Ordonez	Mechanical Engineering	Yes
Experimental Centric Based Engineering Curriculum for HBCU's	Howard University	9/15/2013	8/31/2014	Simon Foo	Electrical Engineering	Yes
MSIEP:Program of Excellence in STEM	U.S. Department of Education	10/1/2013	9/30/2014	Clayton Clark	Civil Engineering	No
Cooperative Systems: Tasl Allocation for Heterogenous Agent	U.S. Army Research Office	10/1/2009	9/30/2014	Emmanuel Collins	Mechanical Engineering	Yes
Functional Naomaterial's Synthesis and Characterization	U.S. Army Medical & Materiel Command	2/1/2014	1/31/2015	Subramanian Ramakrishnan	Chemical Engineering	No
Research Initiation Award Grant: Colloidal Mixtures	National Science Foundation	9/1/2012	8/31/2015	Subramanian Ramakrishnan	Chemical Engineering	No
DOE Massie/NNSA Program	U.S. Department of Energy	10/1/2010	9/30/2015	Hsu-Pin Wang	Industrial Engineering	No
Simulation of Fluid-Structure Interaction for High-Reynolds-Number Compression Flow	U.S. Department of Defense-Army Research Office	5/1/2013	4/30/2016	Kunihiko Taira	Mechanical Engineering	Yes
A Novel Approach to Adaptive Flow Separation Control	U.S. Department of Defense-Army Research Office	5/1/2013	4/30/2016	Emmanuel Collins	Mechanical Engineering	Yes
Towards Ultra-Light Weight Hybrids, Foams and Green Bodies: Structure-Property Relationships in Novel Polymer Grafted Nanoparticles	U.S. Department of Defense-Army Research Office	5/1/2013	4/30/2016	Subramanian Ramakrishnan	Chemical Engineering	Yes
High Temperature Supersonic Jet Noise-Fundamental Studies and Control using Advanced Actuation Methods	U.S. Department of Defense-Army Research Office	5/1/2013	4/30/2016	Farrukh Alvi	Mechanical Engineering	Yes
Towards Ultra-Light Weight Hybrids, Foams and Green Bodies	National Aeronautics & Space Administration Shared Services Center	9/30/2013	8/14/2016	Subramanian Ramakrishnan	Chemical Engineering	No

Source: FAMU and FSU Institutional Research

Prepared by CBT Consultants, September 2014 (2G)

Table 2G	FAMU-FSU Joint College of Engineering Study Potential Research Opportunities by FAMU Faculty Within The Joint College	RFP #2G

Potential FAMU Research Projects	Potential Funding Source	Projected Begin	Projected End	Principal Investigator	Department	Joint with FSU?
HBCU Rise: Study of Engineered Systems & Perturbed Aquatic Environments	National Science Foundation	10/1/2013	3 years	Clayton Clark	Civil Engineering	No
System for Holistic Structural and Prognosis Management for Advanced Composite Materials of Advanced Composites Defense Structures	U. S. Department of Defense /Air Force Office of Scientific Research	6/13/2014	1 year	Tarik Dickens	Industrial Engineering	No
Analysis and Design of Speech Feature Extraction Algorithms	National Science Foundation	June, 2015	2 years	S. Walker	Electrical and Computer	No
Determination of Trip Generating Characteristics of Transit-Oriented Developments in Florida	Florida Department of Transportation	1-Oct-14	18 months	R. Moses	Civil Engineering	No
Geometric Characteristics Affecting Safety of Older Drivers on Florida Highways	U.S. Department of Transportation	1-Jan-15	12 months	R. Moses	Civil Engineering	Yes
Civil Engineering Support for Telemetered Traffic Monitoring Sites	Florida Department of Transportation	1-Jan-15	12 months	R. Moses	Civil Engineering	No
Wireless Communications in Transportation Laboratory	National Science Foundation	1-Jul-15	24 months	R. Moses	Civil Engineering	Yes
Recycled Concrete and MARGINAL Aggregates For internal Curing of Concrete	Florida Department of Transportation	April 2015	24 Months	K. Tawfiq	Civil Engineering	Yes
Synthesis of thinned wideband antenna arrays	U.S. Department of Defense	Jan-15	Three Years	R. Arora	Electrical and Computer	Yes
Electrical Engineering Research for Telemeterd Traffic Monitoring Systems	Florida Department of Transportation	Jan-15	15 months	B. Harvey	Electrical and Computer	No
Thin film metal oxides for water electrolysi	National Science Foundation			E. Kalu	Chemical Engineering	No
Electrolyte composition and ionic transport effects on Iron-ion/hydrogen-ion redox flow battery	Department of Energy and Army Research Lab			E. Kalu	Chemical Engineering	No
Heterogeneous Catalysis of biomass	U.S. Department of Agriculture			E. Kalu	Chemical Engineering	No

A Novel electrode architecture for Li-air battery	Department of Energy and Army Research Lab			E. Kalu	Chemical Engineering	No
Sustainable Energy Systems for Rural Agricultural and Farming Irrigation Systems and Fully Sustainable Off-Grid Houses	National Science Foundation	2015	5 years	P. Moss	Electrical and Computer	No
Modeling and Fabrication of High voltage layered and spinel cathode materials for lithium-ion batteries (Early Career)	National Science Foundation	2015	3 years	P. Moss	Electrical and Computer	No
Energy storage for direct solar Plants	National Science Foundation	2015	3 years	P. Moss	Electrical and Computer	Yes
Center for Sustainable Solutions in EnergyWaterFoodNexus	National Science Foundation	2016	5 years	M. Weatherspoon	Electrical and Computer	No
Advanced Batteries for Transportation and Renewable Energy Storage	National Science Foundation	2016	3 years	M. Weatherspoon	Electrical and Computer	Yes
Enhancment of the Pre-Engineering Program at the FAMU-FSU College of Engineering	US Department of Education	2016	3 years	R. Perry	Electrical and Computer	No

NOTE FROM FAMU: This table may be incomplete since some FAMU Engineering faculty do submit grant proposals through FSU which are not captured here.

Source: FAMU and FSU Institutional Research

Prepared by CBT Consultants, September 2014 (2G)

Table 2G	FAMU-FSU Joint College of Engineering Study Current Research by FSU Faculty Within The Joint College	RFP #2G

Current FSU Research Projects	Project Funding	Funding Source	Project Begin	Project End	Principal Investigator	Department	Joint with FAMU?
Development Of Techniques To Quantify H2S Oxidation In L	$ 115,352.25	Waste Management, Inc.	6/1/2012	12/31/2014	AbichouTarek	Civil and Environmental Engineering	No
Leachate Collection System Clogging in Florida: A Realit	$ 34,103.00	University of Florida	9/1/2013	12/31/2014	AbichouTarek	Civil and Environmental Engineering	No
EH Branching Microstructure	$ 424,196.14	Exxon Chemical Company	10/1/2006	1/20/2015	AlamoRufina	Chemical and Biomedical Engineering	No
Kinetic Control of Crystalline Order in Olefin-Based Pol	$ 466,135.00	National Science Foundation	6/1/2011	5/31/2015	AlamoRufina	Chemical and Biomedical Engineering	No
The Florida Center for Advanced Aero-Propulsion	$ 10,927,668.03	Florida Legislature	7/1/2008	12/31/2016	AlviFarrukh	Mechanical Engineering	No
Pire: Collaborations with Japan and France on Complex an	$ 375,864.00	University of Florida	7/1/2010	6/30/2015	AlviFarrukh	Mechanical Engineering	No
MRI: Development of a Next Generation Polysonic Wind Tun	$ 3,295,029.00	National Science Foundation	9/1/2010	8/31/2015	AlviFarrukh	Mechanical Engineering	No
Technical Oversight and Integration	$ 618,891.00	Federal Aviation Administratio	8/18/2010	5/31/2015	AlviFarrukh	Mechanical Engineering	No
FAA Center of Excellence for Commercial Space	$ 473,768.24	Space Florida	8/1/2011	8/31/2015	AlviFarrukh	Mechanical Engineering	No
Research & Education Program for HBCUs	$ 30,987.00	Florida A&M University	5/1/2013	4/30/2016	AlviFarrukh	Mechanical Engineering	No
A Comprehensive Study of 3-D Shock/Turbulent Boundary La	$ 539,993.00	Air Force Office of Scientific Research	7/15/2014	7/14/2019	AlviFarrukh	Mechanical Engineering	No
A Novel Method to Predict Circulation Noise Control	$ 340,000.00	Office of Naval Research	4/1/2012	3/30/2015	CattafestaLouis	Mechanical Engineering	No
ONR Vortex 87790 - An Experimental Investigation Of Wing	$ 155,671.00	University of Florida	9/1/2012	12/31/2014	CattafestaLouis	Mechanical Engineering	No
Aeroacoustic Measurements of a Leading Edge-Slat	$ 84,970.00	National Aeronautics & Space A	9/15/2013	9/15/2014	CattafestaLouis	Mechanical Engineering	No
Aerated Recirculation and Pressurized Suspended Fiber Bi	$ 46,780.00	University of Florida	9/1/2013	8/31/2014	ChenGang	Civil and Environmental Engineering	No
Utilizing Smart Materials For Miniature Multi-Modal Dyna	$ 239,941.00	Central Intelligence Agency	8/16/2012	8/15/2015	ClarkJonathan	Mechanical Engineering	No

CAREER:Rotational Dynamics for Improved Legged Locomotio	$ 402,804.00	National Science Foundation	10/1/2014	9/30/2019	ClarkJonathan	Mechanical Engineering	No
ROBO-OPS Project	$ 1,000.00	University of Central Florida	12/1/2013	11/30/2014	ClarkJonathan	Mechanical Engineering	No
Momentum Based Motion Planning for Manipulators with Var	$ 249,966.00	National Science Foundation	9/1/2011	8/31/2014	CollinsEmmanuel	Mechanical Engineering	No
Exploring Novel Sensor Phenomenology	$ 528,115.00	General Dynamics	6/3/2013	4/15/2015	CollinsEmmanuel	Mechanical Engineering	No
NSF Engineering Research Center for Future Renewable Ele	$ 3,204,581.00	North Carolina State Universit	9/1/2008	8/31/2014	EdringtonChris	Electrical and Computer Engineering	No
Integration of NonLinear Loads into the Next Generation	$ 3,780,650.00	Office of Naval Research	8/6/2010	12/1/2014	EdringtonChris	Electrical and Computer Engineering	No
ESRDC Swampworks FY2013	$ 2,023,642.00	Office of Naval Research	9/3/2013	12/3/2014	EdringtonChris	Electrical and Computer Engineering	No
A Lyapunov Function-Based Remedial Action Screening	$ 300,000.00	Michigan State University	10/1/2012	9/30/2014	FaruqueMd Omar	Electrical and Computer Engineering	No
Foundations for Engineering Education for Distributed En	$ 60,000.00	University of Central Florida	9/30/2013	9/30/2014	FaruqueMd Omar	Electrical and Computer Engineering	No
Integration Of Polyelectrolyte Contact Printing And Aryl	$ 399,801.00	National Science Foundation	8/1/2013	7/31/2016	GuanJingjiao	Chemical and Biomedical Engineering	No
2014 Ee Support for the FDOT Statistics Office	$ 75,000.00	Florida Department of Transportation	12/16/2013	3/31/2015	HarveyBruce	Electrical and Computer Engineering	Yes
Damage to ITS, Traffic Control and Roadway Lighting Equi	$ 196,793.00	Florida Department of Transportation	4/30/2014	4/30/2016	HarveyBruce	Electrical and Computer Engineering	Yes
Understanding the Role of Grain Boundaries in Limiting t	$ 270,457.00	National Science Foundation	7/1/2013	6/30/2017	HellstromEric	Mechanical Engineering	
Sea Level Rise	$ 191,502.00	University of Central Florida	9/1/2010	8/31/2014	HuangWenrui	Civil and Environmental Engineering	Yes
CAREER: Offshore Wind Turbines Subjected to Hurricanes:	$ 400,000.00	National Science Foundation	5/1/2013	4/30/2018	JungSungmoon	Civil and Environmental Engineering	Yes
Year 1 of 2 - Masters Degree Fellowship for Larissa Ferr	$ 12,000.00	University of Central Florida	8/26/2013	8/25/2014	JungSungmoon	Civil and Environmental Engineering	Yes
Flowfield Characteristics of Axisymmetric and Non-Axixym	$ 140,000.00	Northrop Grumman Corporation	10/1/2013	12/31/2014	KumarRajan	Mechanical Engineering	No
Wind Tunnel Balance Correction for Structural Motion Eff	$ 30,035.00	M4 Engineering	4/17/2014	12/31/2014	KumarRajan	Mechanical Engineering	No

Improving Power Quality and Safety Operation of Multiple	$ 349,545.00	National Science Foundation	7/1/2010	9/30/2014	LiHui	Electrical and Computer Engineering	No
GOALI:1 Mhz GaN-Based, Modular,Cascaded Z-Source Inverte	$ 196,138.00	National Science Foundation	10/1/2011	9/30/2015	LiHui	Electrical and Computer Engineering	No
BRIGE: Engineering a Biomatrix Library Derived from Indu	$ 174,737.00	National Science Foundation	10/1/2013	9/30/2015	LiYan	Chemical and Biomedical Engineering	No
Center of Excellence in Advanced Materials	$ 4,000,000.00	Florida Board of Governors	12/15/2006	11/13/2015	LiangZhiyong	Industrial and Manufacturing Engineering	No
Carbon Nanotube Buckypaper/Thermoplastic Composites: Syn	$ 300,000.00	Office of Naval Research	11/22/2010	12/31/2014	LiangZhiyong	Industrial and Manufacturing Engineering	No
Macroscopic Crosslinked Neat Carbon Nanotube Materials a	$ 1,070,000.00	Air Force Office of Scientific Research	7/1/2011	6/30/2015	LiangZhiyong	Industrial and Manufacturing Engineering	No
Heterogeneously Structured Conductive Resin Matrix/Graph	$ 320,000.00	Kai, LLC	4/1/2013	3/31/2015	LiangZhiyong	Industrial and Manufacturing Engineering	No
Ultra-long Carbon Nanotubes Synthesis Study: Porous Cata	$ 250,000.00	Office of Naval Research	11/29/2012	11/28/2015	LiangZhiyong	Industrial and Manufacturing Engineering	No
SNM: Roll-To-Roll Manufacturing of High Quality Bucky-Ta	$ 1,465,059.00	National Science Foundation	10/1/2013	9/30/2017	LiangZhiyong	Industrial and Manufacturing Engineering	No
Reaction Processes In Organic Droplet Spray Plasma React	$ 358,201.00	National Science Foundation	9/1/2012	8/31/2015	LockeBruce	Chemical and Biomedical Engineering	No
Green chemical route to the small scale production of	$ 50,000.00	National Science Foundation	1/1/2014	8/31/2014	LockeBruce	Chemical and Biomedical Engineering	No
Development of Spinner Flask Bioreactor For Scalable Exp	$ 100,000.00	Florida Department of Health	6/30/2013	9/30/2014	MaTeng	Chemical and Biomedical Engineering	No
Translation of Human Mesenchymal Stem Cell Therapy for S	$ 200,000.00	Florida Department of Health	12/1/2013	11/30/2015	MaTeng	Chemical and Biomedical Engineering	No
The Sunshine State Solar Grid Initiative	$ 1,998,134.00	U. S. Department of Energy	12/6/2011	2/28/2015	MeekerRichard	Chemical and Biomedical Engineering	No
Twenty-Four Hour Peaking Relationship to Level of Servic	$ 150,000.00	Florida Department of Transportation	5/14/2013	12/31/2014	MosesRen	Civil and Environmental Engineering	Yes
Civil Engineering Support for the Traffic Monitoring Pro	$ 75,000.01	Florida Department of Transportation	12/16/2013	3/31/2015	MosesRen	Civil and Environmental Engineering	Yes
CAREER: Materials Driven by Light: Nonlinear Photomechan	$ 400,000.00	National Science Foundation	2/15/2011	1/31/2016	OatesWilliam	Mechanical Engineering	No

Modeling and Experimental Characterization of Novel Phot	$ 106,614.00	Air Force Office of Scientific Research	9/30/2013	9/29/2017	OatesWilliam	Mechanical Engineering	No
CDS&E/Collaborative Research: Uncertainty Quantificati	$ 206,652.00	National Science Foundation	9/1/2013	8/31/2016	OatesWilliam	Mechanical Engineering	No
A01 3 High-Temperature Sapphire Pressure Sensors for Har	$ 309,843.00	University of Florida	1/1/2014	12/31/2016	OatesWilliam	Mechanical Engineering	No
Simulation of Fluid-Structure Interaction for High-Reyno	$ 18,633.00	Florida A&M University	5/1/2014	4/30/2015	OatesWilliam	Mechanical Engineering	No
Development of a Triboluminescence and Photocatalysis Ba	$ 300,000.00	National Science Foundation	9/1/2010	8/31/2014	OkoliOkenwa	Industrial and Manufacturing Engineering	No
DREAM- Diversity in Research and Engineering of Advanced	$ 355,588.00	Air Force Research Laboratory	6/9/2011	5/8/2015	OkoliOkenwa	Industrial and Manufacturing Engineering	No
REU Site: Research Experience for Undergraduates: Retain	$ 360,000.00	National Science Foundation	5/1/2014	4/30/2017	OkoliOkenwa	Industrial and Manufacturing Engineering	No
I-Corps: Commercialization Feasibility of an In-situ Se	$ 50,000.00	National Science Foundation	7/1/2014	12/31/2014	OkoliOkenwa	Industrial and Manufacturing Engineering	No
CAREER: Solid State NMR Characterization of Molecular St	$ 319,460.00	National Science Foundation	1/15/2011	12/31/2015	ParavastuAnant	Chemical and Biomedical Engineering	No
Solid State NMR Structural Analysis of Oligomeric	$ 348,294.00	National Institute on Aging	5/1/2014	4/30/2015	ParavastuAnant	Chemical and Biomedical Engineering	No
Dynamic, Data-Drive Modeling of Nanoparticle Self Assemb	$ 197,885.00	Texas A&M University	3/15/2013	2/14/2015	ParkChiwoo	Industrial and Manufacturing Engineering	No
Understanding and Monitoring Nanoparticle Self-assembly	$ 284,993.00	National Science Foundation	10/1/2013	9/30/2016	ParkChiwoo	Industrial and Manufacturing Engineering	No
Evaluation of Florida Asphalt Mixes for Crack Resistance	$ 241,086.00	Florida Department of Transportation	1/14/2014	1/31/2016	PingWei-Chou	Civil and Environmental Engineering	No
Connecting Nanoscale Structure And Dynamics To Rheology	$ 86,702.00	Johns Hopkins University	10/1/2013	9/30/2016	RamakrishnanSubramanian	Chemical and Biomedical Engineering	Yes
Precast Element Evaluation For The US 90 Bridges Over Li	$ 230,000.00	Florida Department of Transportation	4/9/2013	10/31/2017	Rambo-RoddenberryMichelle	Civil and Environmental Engineering	No
U.S.-Brazil Partnership In Sustainable Energy and Aerona	$ 235,451.00	U. S. Department of Education	8/1/2010	9/7/2015	ShihChiang	Mechanical Engineering	No

Research Experiences for Undergraduate Site: Multi-Physi	$ 380,980.00	National Science Foundation	8/1/2011	7/31/2015	ShihChiang	Mechanical Engineering	No
Mechanical Engineering Educational Programs, Senior Caps	$ 275,000.00	Air Force Research Laboratory	9/10/2010	12/31/2014	ShihChiang	Mechanical Engineering	No
High Temperature Supersonic Jet Noise Fundamental Studie	$ 43,951.00	Florida A&M University	5/1/2013	9/1/2014	ShihChiang	Mechanical Engineering	No
Cone and Friction Cone Penetrometer Applications to Arch	$ 17,794.00	National Park Service	8/30/2013	8/30/2014	ShihChiang	Mechanical Engineering	No
Noise and Thermal Mitigation of Naval Systems	$ 125,000.00	University of Michigan Ann Arbor	9/12/2013	9/12/2014	ShihChiang	Mechanical Engineering	No
High Temperature Supersonic Jet Noise Fundamental Studie	$ 43,880.00	Florida A&M University	5/1/2014	4/30/2015	ShihChiang	Mechanical Engineering	No
Discovery and Crystal Growth of New Oxide Phases from Me	$ 600,000.00	U. S. Department of Energy	9/1/2012	8/31/2015	SiegristTheo	Chemical and Biomedical Engineering	No
EAGER: X-ray Diffraction in High Magnetic Fields: A Proo	$ 292,930.00	National Science Foundation	9/1/2012	8/31/2015	SiegristTheo	Chemical and Biomedical Engineering	No
Go Program: Jifeng Sun - Computation of Electronic Band	$ 44,712.00	UT-Battelle LLC	7/14/2014	7/13/2015	SiegristTheo	Chemical and Biomedical Engineering	No
Center for Safe and Accessible Transportation for an Agi	$ 2,816,300.00	U. S. Department of Transporta	10/30/2013	9/30/2017	SobanjoJohn	Civil and Environmental Engineering	No
Implementation of the 2013 AASHTO Bridge Manual for Brid	$ 249,997.00	Florida Department of Transportation	1/13/2014	1/31/2016	SobanjoJohn	Civil and Environmental Engineering	No
Ground Tire Rubber (GTR) as a Component Material in Conc	$ 52,144.23	Florida Department of Transportation	2/24/2014	12/30/2014	SobanjoJohn	Civil and Environmental Engineering	No
Tracs Support, Enhancement, And Training	$ 400,000.00	Florida Department of Transportation	10/1/2013	9/30/2014	SpainhourLisa	Civil and Environmental Engineering	No
NREL PHIL Anti-Islanding Testing and Demonstration	$ 203,761.00	Alliance for Sustainable Energy, LLC	4/29/2013	12/31/2014	SteurerMichael	Center for Advanced Power Systems	No
Three Dimensional Control Of High Speed Cavity Flows	$ 188,039.00	University of Florida	3/1/2013	2/28/2015	TairaKunihiko	Mechanical Engineering	No
Understanding The Fundamental Roles of Momentum And Vort	$ 238,789.00	Air Force Office of Scientific Research	5/15/2013	5/14/2016	TairaKunihiko	Mechanical Engineering	No
Turbulent Flow Modification with Thermoacoustic	$ 115,459.00	U. S. Army Research Office	6/1/2014	5/31/2015	TairaKunihiko	Mechanical Engineering	No

Network-Theoretic Modeling of Fluid Flow	$ 49,954.00	U. S. Army Research Office	8/1/2014	4/30/2015	TairaKunihiko	Mechanical Engineering	No
Empirical Deck for Phased Construction and Widening	$ 52,357.00	University of North Florida	5/1/2013	3/31/2015	TawfiqKamal	Civil and Environmental Engineering	Yes
Accelerated Slab Replacement Using Temporary Precast Pan	$ 250,719.00	Florida Department of Transportation	5/28/2013	6/30/2015	TawfiqKamal	Civil and Environmental Engineering	Yes
Development of Automated Testing Tools for Traffic Contr	$ 117,998.80	Florida Department of Transportation	1/2/2014	10/2/2014	TungLeonard	Electrical and Computer Engineering	No
Liquid Helium Fluid Dynamics Studies	$ 3,224,000.00	U. S. Department of Energy	1/1/1996	3/31/2015	Van SciverSteven	Mechanical Engineering	No
GOALI:Engineering-Driven Modeling of Multi-Resolution	$ 277,440.00	National Science Foundation	3/1/2014	8/31/2016	WangHui	Industrial and Manufacturing Engineering	No
Crashworthiness Evaluation of Paratransit Buses 2013-201	$ 240,000.00	Florida Department of Transportation	8/16/2013	8/15/2014	WekezerJerzy	Civil and Environmental Engineering	No
Multifunctional Ceramic Nanocomposites Reinforced With A	$ 150,490.00	Office of Naval Research	5/1/2014	4/30/2016	XuChengying	Mechanical Engineering	No
Don Fuqua Eminent Scholar Chair	$ 296,396.00	FSU Foundation	7/1/2008	6/30/2015	YeboahYaw	Chemical and Biomedical Engineering	No
University Eminent Scholar Chair Fund	$ 64,500.00	FSU Foundation	7/1/2012	6/30/2015	YeboahYaw	Chemical and Biomedical Engineering	No
Socket Optimized for Comfort with Advanced Technologies	$ 4,429,177.00	U. S. Dept. of Veterans Affairs	9/28/2012	9/27/2014	ZengChangchun	Industrial and Manufacturing Engineering	No
Investigation of Pre-Lithiated Anodes for Li-Ion Batteri	$ 300,000.00	Battelle Memorial Institute	7/1/2013	9/30/2014	ZhengJianping	Electrical and Computer Engineering	No
Development of High Energy Li Capacitors	$ 46,996.00	FSU Foundation	10/1/2013	6/30/2016	ZhengJianping	Electrical and Computer Engineering	No
Development and Characterization of Li-ion Capacitor Ele	$ 227,144.00	General Capacitor	1/1/2014	12/31/2015	ZhengJianping	Electrical and Computer Engineering	No
Investigation on the Effects of Porosity and Catalyst to	$ 250,000.00	General Technical Services	6/2/2014	6/1/2015	ZhengJianping	Electrical and Computer Engineering	No

Source: FAMU and FSU Institutional Research

Prepared by CBT Consultants, September 2014 (2G)

Potential Research Opportunities by FSU Faculty Within The Joint College

Potential FSU Research Projects*	Potential Funding Source	Projected Begin as stated or later	Projected End as stated or later	Principal Investigator	Department	Joint with FAMU?
Enhancing Airport Wayfinding for the Elderly and Persons	Transportation Research Board	6/1/2014	11/30/2015	AbdelRazig Yassir	Civil & Environmental Engineer	Yes
Transferring From Flares To Biofilters For Landfill Appl	Waste Management, Inc.	3/1/2013	5/10/2014	Abichou Tarek	Civil & Environmental Engineer	No
Kinetic Control of Crystalline Order in O-B Polymers	National Science Foundation	5/1/2014	12/31/2014	Alamo Rufina	Chemical & Biomed Engineering	No
Active, Passive and Hybrid Jet Noise Reduction Methods f	Office of Naval Research	9/1/2013	8/31/2016	Alvi Farrukh	Mechanical Engineering	No
Development of Noise Prediction Design Tools for Future	Cascade Technologies, Inc.	9/1/2013	8/31/2016	Alvi Farrukh	Mechanical Engineering	No
Mathematics and Scinece Partnership: Common Core in the	University of Central Florida	5/1/2013	6/30/2014	Alvi Farrukh	Mechanical Engineering	No
Design Optimization and Analysis of Advanced Exhaust Sys	Cascade Technologies, Inc.	7/1/2014	4/30/2015	Alvi Farrukh	Mechanical Engineering	No
LOI: NRT-DESE: Graduate Research Training for Modeling,	National Science Foundation	5/27/2014	5/26/2015	Alvi Farrukh	Mechanical Engineering	No
Active Control of Turbomachinery Using Microjet Acutator	Danfoss Turbocor Compressors, Inc.	9/1/2014	2/28/2015	Alvi Farrukh	Mechanical Engineering	No
Improved Fixed-Wing Aerodynamics via Unsteady Circulatio	Office of Naval Research	7/1/2013	6/30/2018	Cattafesta Louis	Mechanical Engineering	No
Flow Physics and Nonlinear Dynamics of Separated Flows S	Air Force Office of Scientific Research	1/1/2014	12/31/2017	Cattafesta Louis	Mechanical Engineering	No
Virtual Winglets for Reduced Vortex Wake Hazard, Noise,	National Aeronautics & Space A	10/1/2013	9/30/2015	Cattafesta Louis	Mechanical Engineering	No
Collaborative Research: NRT-DESE: Graduate Research Trai	National Science Foundation	9/1/2014	8/31/2019	Cattafesta Louis	Mechanical Engineering	No

Assessment of Noise Reduction Concepts for Leading-Edge	National Aeronautics & Space A	9/15/2014	12/31/2015	Cattafesta Louis	Mechanical Engineering	No
Novel Engineered Nanomaterials For Detection Of Cardiac	American Heart Association	7/1/2013	6/30/2015	Chatterjee Jhunu	Industrial & Manufacturing Eng	No
Novel Natural Materials in energy Storage Applications &	EducationUSA	8/1/2014	7/31/2017	Chatterjee Jhunu	Industrial & Manufacturing Eng	No
Novel Engineered Nanohydbidmaterials for Detection of Ca	American Heart Association	7/1/2014	6/30/2016	Chatterjee Jhunu	Industrial & Manufacturing Eng	No
Nanomaterial Based Biosensors For Molecular Disease Dete	G5 Engineering Solutions	4/1/2015	10/1/2015	Chatterjee Jhunu	Industrial & Manufacturing Eng	No
Mitigation Of Bacillus Anthracis Spore Spreading	U. S. Department of State	9/1/2013	8/31/2014	Chen Gang	Civil & Environmental Engineer	Yes
Recovery of Struvite from Wastewater Treatment Plants	Water Environmental Research Fdn	2/1/2014	1/31/2016	Chen Gang	Civil & Environmental Engineer	No
Advanced Oxidation, Recirculation and Pressurized Suspen	Environmental Research and Education Fdn	9/1/2014	8/31/2016	Chen Gang	Civil & Environmental Engineer	Yes
Watershed Level Evaluation of Nitrogen Applications in A	National Science Foundation	1/1/2015	12/31/2017	Chen Gang	Civil & Environmental Engineer	No
Robo-Ops Project	University of Central Florida	12/1/2013	6/30/2014	Clark Jonathan	Mechanical Engineering	No
An Integrated In-Situ Testing System for Multi-Scale Mea	Office of Naval Research	7/1/2014	6/30/2015	Collins Emmanuel	Ctr for Intel Sys; Ctrl; Rbts	No
The Intelligent Terrain Aware Navigation (ITAN) Software	R-DEX Systems	9/1/2014	2/28/2015	Collins Emmanuel	Ctr for Intel Sys; Ctrl; Rbts	No
ESRDC FY14-16	Office of Naval Research	1/1/2014	12/31/2016	Dale Steinar	Electrical & Computer Engineer	No
Distributed Decision-Making For Distributed Heterogeneou	University of Texas at Arlington	10/7/2013	12/31/2017	Edrington Chris	Electrical & Computer Engineer	No
DOE SBIR Phase II Caps Effort	Oscilla Power	6/1/2014	5/30/2016	Edrington Chris	Electrical & Computer Engineer	No
LOI: High-Resolution Magnetic Resonance Imaging in Solid	National Science Foundation	11/15/2013	11/14/2018	Fu Riqiang	Electrical & Computer Engineer	No

Timed Human Mesenchymal Stem Cell Injections In Stroke E	American Heart Association	7/1/2013	6/30/2015	Grant Samuel	Chemical & Biomed Engineering	No
Ultrafast in Vivo Diffusion Imaging of Stroke at High Fi	National Institutes of Health	9/1/2013	8/31/2015	Grant Samuel	Chemical & Biomed Engineering	No
MRI Analysis of Culture Expanded Human Mesenchymal	National Institutes of Health	9/1/2013	8/31/2018	Grant Samuel	Chemical & Biomed Engineering	No
Direct Functional Imaging of Electrical Brain Stimulatio	Arizona State University	1/1/2014	8/31/2018	Grant Samuel	Chemical & Biomed Engineering	No
Timed Human Mesenchymal Stem Cell Therapy in Stroke Eval	American Heart Association	7/1/2014	6/30/2016	Grant Samuel	Chemical & Biomed Engineering	No
Relaxation Enhanced in Vivo Magnetic Resonance Spectrosc	National Institutes of Health	9/1/2014	8/31/2016	Grant Samuel	Chemical & Biomed Engineering	No
APPRAISE	Institute of Education Sciences	7/1/2014	6/30/2017	Grooms Jonathon	Mechanical Engineering	No
Construction of Large Periodic Array of Single DNA Molec	National Science Foundation	9/1/2013	8/31/2016	Guan Jingjiao	Chemical & Biomed Engineering	No
CAREER: Protein-based plate-shaped microparticles with	National Science Foundation	6/1/2014	5/31/2019	Guan Jingjiao	Chemical & Biomed Engineering	No
Removing Circulating Tumor Cells of Breast Cancer with I	U. S. Department of Defense	8/1/2014	7/31/2017	Guan Jingjiao	Chemical & Biomed Engineering	No
Removing Circulating Tumor Cells of Breast Cancer with I	National Institutes of Health	2/1/2015	1/31/2017	Guan Jingjiao	Chemical & Biomed Engineering	No
Visualization Study of Heat Transfer in Superfluid Heliu	National Science Foundation	6/1/2014	5/31/2017	Guo Wei	Mechanical Engineering	No
Vortex Line Visualization in a Magnetically Levitated He	Oak Ridge Associated Universit	6/1/2014	5/31/2015	Guo Wei	Mechanical Engineering	No
Collaborative Research: Visualization of quantum turbule	National Science Foundation	7/1/2014	6/30/2017	Guo Wei	Mechanical Engineering	No
CAREER: Visualization Study Of Classical And Quantum Tur	National Science Foundation	5/1/2015	4/30/2020	Guo Wei	Mechanical Engineering	No

Studying Stress in Block Copolymer Electrolytes	American Chemical Society	5/1/2015	8/31/2017	Hallinan Daniel	Chemical & Biomed Engineering	No
Economizers as a Strategy for Increased Efficiency of Na	Associated Gas Distributors of Florida	5/1/2013	4/30/2014	Harrington Julie	Mechanical Engineering	No
Acquisition of EPMA	University of Florida	7/1/2013	6/30/2015	Hellstrom Eric	Mechanical Engineering	No
Economic Impact Assessment of Mitigation Actions on Roof	University of Florida	2/1/2014	1/31/2016	Jung Sungmoon	Civil & Environmental Engineer	Yes
Promoting Preventive Mitigations Of Buildings Against Hu	University of Florida	12/1/2014	8/31/2016	Jung Sungmoon	Civil & Environmental Engineer	Yes
Anti-Inflammatory Effects Of Conjugated Linoleic Acid	National Inst of Food & Agriculture	9/1/2013	8/31/2017	Kim Jeong-Su	Chemical & Biomed Engineering	No
Ultra High Temperature Composites, Aero-Thermal Modeling	Federal Aviation Administratio	6/1/2013	5/31/2014	Kumar Rajan	Mechanical Engineering	No
TASK NEW-ND10: Unsteady Aerodynamics & Aeroacoustics in	Federal Aviation Administratio	6/1/2013	5/31/2014	Kumar Rajan	Mechanical Engineering	No
Silent and Efficient Supersonic Bi-Directional Flying Wi	University of Miami	9/1/2013	8/31/2015	Kumar Rajan	Mechanical Engineering	No
Flowfield Characteristics of Axisymmetric and Non-Axixym	Northrop Grumman Corporation	9/23/2013	2/23/2014	Kumar Rajan	Mechanical Engineering	No
Modular Flexible Weapons Integration	Clear Science Corp.	5/1/2014	12/30/2014	Kumar Rajan	Mechanical Engineering	No
Development of an Efficient and Adaptive Jet Noise Reduc	Spectral Energies, LLC	5/1/2014	12/30/2014	Kumar Rajan	Mechanical Engineering	No
Innovative Propeller Multi-Point Multi-Disciplinary Opti	M4 Engineering	7/1/2014	6/30/2015	Kumar Rajan	Mechanical Engineering	No
Evaluation of Unsteady Loading on Store Trajectories	M4 Engineering	6/1/2014	5/31/2016	Kumar Rajan	Mechanical Engineering	No
Embedded Sensors for Flight Test (Every Aircraft a Test	Spectral Energies, LLC	7/1/2014	4/30/2015	Kumar Rajan	Mechanical Engineering	No

Highly-Resolved Wall-Shear-Stress Measurement in High Sp	Mainstream Engineering	7/1/2014	4/30/2015	Kumar Rajan	Mechanical Engineering	No
Active Combustion Control (ACC) of Augmentor Dynamics	M4 Engineering	7/1/2014	4/30/2015	Kumar Rajan	Mechanical Engineering	No
Low Noise high Efficiency Supersonic Bi-Directional Flyi	University of Miami	1/1/2015	12/31/2015	Kumar Rajan	Mechanical Engineering	No
Decellularized Microspheres From Induced Pluripotent Ste	Florida Department of Health	7/1/2013	6/30/2014	Li Yan	Chemical & Biomed Engineering	No
Dynamic Differentiation of hiPSC-Derived Dendritic Cells	Florida Department of Health	10/1/2013	9/30/2015	Li Yan	Chemical & Biomed Engineering	No
Regulation Of Metabolism and Differentiation of Human In	National Science Foundation	1/1/2014	12/31/2018	Li Yan	Chemical & Biomed Engineering	No
Construction of Induced Pluripotent Stem Cell-Derived Ca	American Heart Association	7/1/2014	6/30/2016	Li Yan	Chemical & Biomed Engineering	No
60kW DC_AC Inverter with Internal Isolation using GaN De	Princeton Power Systems	7/1/2014	3/31/2015	Li Hui	Electrical & Computer Engineer	No
Sic Based Pv Converter	North Carolina State Universit	7/1/2014	6/30/2019	Li Hui	Electrical & Computer Engineer	No
Biomechanical Regulation Of Cardiomyocyte Differentiatio	National Institutes of Health	1/1/2015	12/31/2016	Li Yan	Chemical & Biomed Engineering	No
NNMI: Digital Rapid Composites Manufacturing	University of Florida	1/1/2014	12/31/2019	Liang Zhiyong	Industrial & Manufacturing Eng	No
Continuous Buckypaper Sample Fabrication Demonstration	General Nano LLC	12/1/2013	4/30/2014	Liang Zhiyong	Industrial & Manufacturing Eng	No
Fuse-like Structural Health Monitoring (SHM) Sensor Usin	Acellent Technologies	6/1/2014	11/30/2014	Liang Zhiyong	Industrial & Manufacturing Eng	No
Nano-Enabled, Hybrid Ionic Conducting Polymer Membranes	ADA Technologies	7/1/2014	12/31/2014	Liu Tao	Industrial & Manufacturing Eng	No
Analysis of Hydrazine Formation in Plasma Reactors	Cella Energy US Inc	8/15/2013	9/15/2013	Locke Bruce	Chemical & Biomed Engineering	No

SBIR Phase I: Green Chemical Fertilization and Disinfect	Green Plasma Technologies	1/1/2015	6/20/2015	Locke Bruce	Chemical & Biomed Engineering	No
Scalable Expansion And Functional Enhancement Of Human M	American Heart Association	7/1/2013	6/30/2015	Ma Teng	Chemical & Biomed Engineering	No
Tissue Engineering Vascularized Bone	National Institutes of Health	4/1/2014	3/31/2016	Ma Teng	Chemical & Biomed Engineering	No
Spontaneously Site-Isolated Phosphorescent Emitters for	InnoSense LLC	2/18/2014	11/17/2014	Ma Biwu	Engineering Dean	No
Metabolic Heterogeneity of Human Mesenchymal Stem Cells	National Science Foundation	5/1/2014	4/30/2017	Ma Teng	Chemical & Biomed Engineering	No
Metabolic Preconditioning of Human Mesenchymal Stem Cell	American Heart Association	7/1/2014	6/30/2016	Ma Teng	Chemical & Biomed Engineering	No
Semiconducting Cylindrical Nanoobjects Based on Dendroni	American Chemical Society	9/1/2015	8/31/2017	Ma Biwu	Chemical & Biomed Engineering	No
Scalable Production of Mesenchymal Stem Cell Aggregates	RoosterBio	12/1/2014	5/30/2015	Ma Teng	Chemical & Biomed Engineering	No
Targeted Delivery Of Human Mesenchymal Stem Cell-Mediate	Florida Department of Health	2/1/2015	1/31/2018	Ma Teng	Chemical & Biomed Engineering	No
Novel Kinetic Descriptors for Diagnostically Correct Dif	National Institutes of Health	1/1/2014	12/31/2015	Meyer-Baese Anke	Electrical & Computer Engineer	No
Determination of Trip Generating Characteristics of TODs	Florida Department of Transportation	8/15/2014	2/15/2016	Moses Ren	Civil & Environmental Engineer	Yes
DMREF: Collaborative Research: Model Fusion And Uncertai	National Science Foundation	8/15/2013	8/14/2014	Oates William	Mechanical Engineering	No
High Temperature, Optical Sapphire Pressure for Hyperson	Federal Aviation Administratio	6/1/2013	5/31/2014	Oates William	Mechanical Engineering	No
REACT: Reactive Engineered Adaptive Composite Technologi	National Aeronautics & Space A	9/1/2013	8/31/2015	Oates William	Mechanical Engineering	No

NSF MRSEC: Nonlinear Thermomechanics of Shape Memory Pol	University of Rochester	7/1/2014	6/30/2019	Oates William	Mechanical Engineering	No
Nonlinear Thermomechnics Modeling Of Shape Memory Polyme	University of Rochester	1/1/2015	12/31/2018	Oates William	Mechanical Engineering	No
SSI: Collaborative Research: Adaptive Wavelet Simulation	National Science Foundation	1/1/2015	12/31/2017	Oates William	Mechanical Engineering	No
Radiation Sensitive Hybrid System for Challenging Enviro	U. S. Department of Defense	10/1/2013	9/30/2016	Okoli Okenwa	Industrial & Manufacturing Eng	No
Real-Time Detection and Monitoring of Cracks in Concrete	Transportation Research Board	10/1/2013	3/30/2015	Okoli Okenwa	Industrial & Manufacturing Eng	No
SBIR Phase I: Proof-of-Concept Investigation for the ITO	NANOTECHNOLOGY PATRONAS GROUP	1/2/2015	6/30/2015	Okoli Okenwa	Industrial & Manufacturing Eng	No
Manufacturing of Nanostructured Wrinkled Surfaces by Eng	Air Force Research Laboratory	9/1/2014	8/31/2015	Okoli Okenwa	Industrial & Manufacturing Eng	No
Influence of Streamwise Boundary Conditions on the Stabi	National Science Foundation	9/1/2013	8/31/2016	Ordonez Juan	Mechanical Engineering	No
Biomass, Biofuels, and Power Production from Microalgae	U. S. Department of Energy	10/1/2013	10/1/2018	Ordonez Juan	Mechanical Engineering	No
Collaborative Research: Feedback-Based Risk-Averse Asset	National Science Foundation	7/1/2014	6/30/2016	Ozguven Eren	Civil & Environmental Engineer	Yes
Mainstreaming Transportation Hazards and Security Risk M	Transportation Research Board	7/1/2014	8/1/2015	Ozguven Eren	Civil & Environmental Engineer	Yes
Solid State NMR Structural Analysis Of Oligomeric Alzhei	American Heart Association	7/1/2013	6/30/2015	Paravastu Anant	Chemical & Biomed Engineering	No
Structural Investigation Of Oligomeric Alzheimer's B-Amy	Alzheimer's Association	9/1/2013	8/31/2015	Paravastu Anant	Chemical & Biomed Engineering	No
CAREER: In-Situ Processing Of High Frame Rate Process Da	National Science Foundation	4/1/2015	3/31/2020	Park Chiwoo	Industrial & Manufacturing Eng	No

Next Generation Robotics for Next Generation Standards t	University of Central Florida	8/1/2014	7/31/2015	Personette Michelle	Challenger Learning Center	No
Solid State NMR Structural Analysis Of Oligomeric Alzhei	American Heart Association	7/1/2013	6/30/2015	Rosenberg Jens	Chemical & Biomed Engineering	No
FAMU-FSU College of Engineering, Integrated Research and	Air Force Research Laboratory	9/1/2014	8/31/2015	Shih Chiang	Mechanical Engineering	No
REU Site: Multi-Physics Of Active Systems And Structures	National Science Foundation	2/1/2015	1/31/2018	Shih Chiang	Mechanical Engineering	No
DMREF: Collaborative Research: Designing Topological Ins	National Science Foundation	9/1/2013	8/31/2017	Siegrist Theo	Chemical & Biomed Engineering	No
DMREF: Collaborative Research: Engineering Topological M	National Science Foundation	9/1/2014	8/31/2018	Siegrist Theo	Chemical & Biomed Engineering	No
Letter of Intent: University Transportation Centers Prog	U. S. Department of Transporta	8/1/2013	8/30/2018	Sobanjo John	Civil & Environmental Engineer	No
Center For Safe And Accessible Transportation For An Agi	U. S. Department of Transporta	5/1/2014	9/30/2017	Sobanjo John	Civil & Environmental Engineer	No
Electronic License and Vehicle Information System (E.L.V	Florida Department of Transportation	10/1/2014	9/30/2015	Spainhour Lisa	Civil & Environmental Engineer	No
Training Future Magnet Scientists from Quantum Nanomagne	National Science Foundation	7/1/2015	6/30/2020	Strouse Geoffrey	Mechanical Engineering	No
Towards The Multi-Physics Simulation Of Carbon Nanotube/	Oak Ridge Associated Universit	6/1/2013	5/31/2014	Taira Kunihiko	Mechanical Engineering	No
CAREER: Network-Theoretic Approach To Fluid Flow Analysi	National Science Foundation	1/1/2015	12/31/2019	Taira Kunihiko	Mechanical Engineering	No
Integrated Computational-Experimental-Theoretical Approa	National Science Foundation	8/1/2013	7/31/2016	Uzun Ali	Mechanical Engineering	No
Control Strategies Based on Optimally-Growing Disturbanc	National Science Foundation	7/1/2014	6/30/2017	Uzun Ali	Mechanical Engineering	No

Suschem: A Comprehensive Assessment of the Role of Cl At	National Science Foundation	9/1/2013	8/31/2015	Watts Michael	Civil & Environmental Engineer	No
Management of High Chloride Leachates with On-Site Rever	University of Florida	9/1/2013	8/31/2014	Watts Michael	Civil & Environmental Engineer	No
Improving EMS Personnel Safety in Ambulances	National Institutes of Health	9/1/2014	8/31/2017	Wekezer Jerzy	Civil & Environmental Engineer	No
Micro-Sensor Suite for Simultaneous Temperature and Pres	U. S. Department of Energy	9/1/2014	8/31/2017	Xu Chengying	Mechanical Engineering	No
Solid-State Fabrication of Graphene Nanoribbons for Flex	National Science Foundation	8/1/2013	7/31/2016	Zhang Mei	Industrial & Manufacturing Eng	No
Carbon Nanotubes Based Lightweight Electric Wires and Ca	San Diego Composites Inc	6/1/2014	11/30/2014	Zhang Mei	Industrial & Manufacturing Eng	No
Laser Processing Technology For PAN Fiber Carbonization	U. S. Department of Energy	9/1/2014	8/31/2016	Zhang Mei	Industrial & Manufacturing Eng	No
Center for Nanoscale Materials for Capacitive Electrical	University of South Florida	7/1/2014	6/30/2019	Zheng Jianping	Electrical & Computer Engineer	No
Self-Inhibiting, Gradient Sulfur Cathodes for Lithium-Su	North Carolina State Universit	10/1/2014	9/30/2017	Zheng Jianping	Electrical & Computer Engineer	No
Flexible Li-Ion Conducting Membranes for Li-Air Batterie	Luna Innovations Incorporated	10/1/2014	3/31/2015	Zheng Jianping	Electrical & Computer Engineer	No

NOTE FROM FSU: *Potential projects represent proposals previously sumbitted but not yet funded. They could be funded as originally submitted or may be re-submitted to same or different sponsor.

Source: FAMU and FSU Institutional Research

Prepared by CBT Consultants, September 2014 (2G)

Table 2H — FAMU-FSU Joint College of Engineering Study — Research Revenue and Expenditures, 2004-2014 — RFP #2H

FEDERAL RESEARCH

Fiscal Year	Nbr Proposals		Nbr Awards		Amount of Award		Amount of Expenditures	
	FAMU	FSU	FAMU	FSU	FAMU	FSU	FAMU	FSU
FY14	12	127	9	63	$ 1,818,083	$ 13,158,930	$ 1,799,707	$ 9,826,073
FY13	19	124	8	54	$ 2,360,981	$ 13,174,055	$ 1,530,808	$ 10,740,462
FY12	14	131	4	43	$ 400,539	$ 6,373,573	$ 1,881,869	$ 11,583,522
FY11	14	120	8	55	$ 2,924,334	$ 14,098,874	$ 1,828,388	$ 10,993,455
FY10	18	119	10	37	$ 1,038,981	$ 13,532,455	$ 2,517,656	$ 10,589,575
FY09	15	101	8	41	$ 1,207,993	$ 9,744,850	$ 2,988,668	$ 7,791,691
FY08	12	89	6	35	$ 1,758,539	$ 8,216,225	$ 2,872,026	$ 8,165,654
FY07	15	65	5	43	$ 1,105,714	$ 6,849,495	$ 4,136,700	$ 8,310,360
FY06	17	35	6	33	$ 1,385,648	$ 7,039,208	$ 4,851,715	$ 7,140,823
FY05	20	35	8	41	$ 1,957,117	$ 6,843,572	$ 4,144,894	$ 5,588,750
FY04	14	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TOTAL	**170**	**946**	**72**	**445**	**$ 15,957,929**	**$ 99,031,237**	**$ 28,552,431**	**$ 90,730,365**

STATE RESEARCH

Fiscal Year	Nbr Proposals		Nbr Awards		Amount of Award		Amount of Expenditures	
	FAMU	FSU	FAMU	FSU	FAMU	FSU	FAMU	FSU
FY14	0	10	0	8	$ -	$ 614,717	$ 2,137	$ 1,258,647
FY13	2	9	0	8	$ -	$ 850,842	$ -	$ 1,715,027
FY12	1	9	0	9	$ -	$ 1,053,569	$ 812	$ 2,214,269
FY11	3	11	0	12	$ -	$ 1,381,917	$ -	$ 4,243,428
FY10	0	23	0	18	$ -	$ 1,085,825	$ 45,038	$ 5,256,061
FY09	0	15	1	13	$ 96,682	$ 7,345,916	$ -	$ 3,696,493
FY08	0	8	6	8	$ 516,506	$ 11,423,020	$ 51,836	$ 1,358,578
FY07	1	13	1	11	$ 40,169	$ 4,918,171	$ 80,475	$ 742,608
FY06	6	13	1	9	$ 4,500	$ 1,137,560	$ 281,677	$ 836,563
FY05	3	11	8	7	$ 618,913	$ 700,642	$ 109,832	$ 429,714
FY04	5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TOTAL	**21**	**122**	**17**	**103**	**$ 1,276,770**	**$ 30,512,179**	**$ 571,807**	**$ 21,751,387**

OTHER RESEARCH

Fiscal Year	Nbr Proposals		Nbr Awards		Amount of Award		Amount of Expenditures	
	FAMU	FSU	FAMU	FSU	FAMU	FSU	FAMU	FSU
FY14	4	18	4	8	$ 308,292	$ 661,050	$ 344,558	$ 527,205
FY13	5	23	3	11	$ 222,195	$ 755,207	$ 342,574	$ 677,128
FY12	3	14	3	14	$ 305,179	$ 774,741	$ 429,382	$ 821,454
FY11	5	13	9	13	$ 1,172,668	$ 1,282,559	$ 257,266	$ 969,342
FY10	3	11	3	13	$ 195,711	$ 721,696	$ 458,788	$ 546,817
FY09	5	17	4	10	$ 436,197	$ 348,063	$ 397,733	$ 621,270
FY08	5	11	8	16	$ 521,804	$ 1,127,543	$ 288,641	$ 414,347
FY07	3	20	2	15	$ 187,890	$ 422,310	$ 152,145	$ 524,114
FY06	3	14	5	12	$ 266,678	$ 368,405	$ 279,245	$ 405,947
FY05	14	15	12	16	$ 697,978	$ 1,516,144	$ 286,076	$ 158,819
FY04	9	N/A	N/A	N/A	N/A	N/A	N/A	N/A
TOTAL	**59**	**156**	**53**	**128**	**$ 4,314,592**	**$ 7,977,717**	**$ 3,236,409**	**$ 5,666,443**

Source: FAMU and FSU Institutional Research

Prepared by CBT Consultants, September 2014 (2H)

Four-Year Graduation Rates for 2009-10 First-Time Juniors Majoring in Engineering (CIP 14.xxxx) Including 14.9999

Institution	Nbr Graduated	Nbr in Cohort	Graduation Rate
FAMU	44	80	55%
FAU	139	256	54%
FGCU	41	56	73%
FIU	312	605	52%
FSU	258	361	71%
UCF	600	903	66%
UF	962	1168	82%
UNF	117	154	76%
USF	384	578	66%
UWF	37	78	47%
TOTAL	2894	4239	68%

Four-Year Graduation Rates for 2009-10 First-Time Juniors Majoring in Engineering (CIP 14.xxxx) Excluding 14.9999

Institution	Nbr Graduated	Nbr in Cohort	Graduation Rate
FAMU	44	80	55%
FAU	139	256	54%
FGCU	41	56	73%
FIU	312	605	52%
FSU	170	208	82%
UCF	593	883	67%
UF	962	1168	82%
UNF	117	154	76%
USF	384	578	66%
UWF	37	78	47%
TOTAL	2799	4066	69%

METHODOLOGY NOTES

The data for this analysis come from the State University Database System (SUDS) and comprise data elements from student instruction files (SIFs) for summer and fall terms 2009 and spring term 2010 and student instruction files—degrees (SIFD) for each term thereafter to fall 2013. Declared major is determined according to the CIP code (as reported in CIP_STUDENT)—enrolled for the student's first term as a junior. Junior status is as reported by the university.

All student admit types are included in this analysis. Students are placed into the 2009-10 academic year cohort based on the first term they are enrolled as a Junior. The declared major (CIP code) for this initial term is used for the purposes of this table. The degree awarded date on the degrees awarded table is used to determine if the student did or did not graduate within the four-year time period. Degrees earned in the summer are included as a success for the prior year for fall 2009 juniors. In order to ensure equality of opportunity, students who earned junior status for the first time in the spring of 2010 were given until the fall of 2013 to earn a degree within our four-year time frame.

Source: J. Jones, State University System of Florida

CHEMICAL ENGINEERING (14.0701)

CHEMICAL 14.0701	Nbr of First-Time Juniors	Graduated in 4 Years in SAME CIP		Graduated in 4 Years but in OTHER 14.xxxx CIP		Graduated in 4 Years, but NOT in 14.xxxx CIP		Did Not Graduate		Graduated but not in 4 Years	
		Nbr	Rate	Nbr	Rate	Nbr	Rate	Nbr	Rate	Nbr	Rate
FALL 1999											
FAMU	11	6	55%	2	18%	0	0%	2	18%	1	9%
FSU	35	16	46%	5	14%	4	11%	8	23%	2	6%
FALL 2000											
FAMU	6	3	50%	1	17%	1	17%	0	0%	1	17%
FSU	31	14	45%	1	3%	6	19%	9	29%	1	3%
FALL 2001											
FAMU	11	7	64%	1	9%	1	9%	1	9%	1	9%
FSU	34	23	68%	1	3%	3	9%	7	21%	0	0%
FALL 2002											
FAMU	3	1	33%	0	0%	0	0%	2	67%	0	0%
FSU	25	14	56%	1	4%	3	12%	4	16%	3	12%
FALL 2003											
FAMU	4	2	50%	0	0%	0	0%	2	50%	0	0%
FSU	37	16	43%	2	5%	6	16%	12	32%	1	3%
FALL 2004											
FAMU	2	0	0%	0	0%	1	50%	1	50%	0	0%
FSU	38	14	37%	3	8%	7	18%	13	34%	1	3%
FALL 2005											
FAMU	4	2	50%	0	0%	1	25%	1	25%	0	0%
FSU	24	15	63%	1	4%	4	17%	4	17%	0	0%
FALL 2006											
FAMU	0	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a
FSU	34	25	74%	1	3%	4	12%	3	9%	1	3%
FALL 2007											
FAMU	2	0	0%	0	0%	0	0%	1	50%	1	50%
FSU	32	21	66%	1	3%	2	6%	7	22%	1	3%
FALL 2008											
FAMU	1	0	0%	0	0%	0	0%	1	100%	0	0%
FSU	31	23	74%	1	3%	4	13%	3	10%	0	0%
FALL 2009											
FAMU	1	1	100%	0	0%	0	0%	0	0%	0	0%
FSU	36	21	58%	2	6%	9	25%	4	11%	0	0%
TOTAL											
FAMU	45	22	49%	4	9%	4	9%	11	24%	4	9%
FSU	357	202	57%	19	5%	52	15%	74	21%	10	3%

Source: FAMU and FSU Institutional Research Directors

epared by CBT Consultants, September 2014 (2I)

CIVIL ENGINEERING (14.0801)

CIVIL 14.0801	Nbr of First-Time Juniors	Graduated in 4 Years in SAME CIP		Graduated in 4 Years but in OTHER 14.xxxx CIP		Graduated in 4 Years, but NOT in 14.xxxx CIP		Did Not Graduate		Graduated but not in 4 Years	
		Nbr	Rate	Nbr	Rate	Nbr	Rate	Nbr	Rate	Nbr	Rate
FALL 1999											
FAMU	6	3	50%	0	0%	0	0%	2	33%	1	17%
FSU	51	33	65%	0	0%	3	6%	14	27%	1	2%
FALL 2000											
FAMU	12	5	42%	0	0%	5	42%	1	8%	1	8%
FSU	44	23	52%	0	0%	8	18%	8	18%	5	11%
FALL 2001											
FAMU	4	0	0%	0	0%	2	50%	2	50%	0	0%
FSU	74	48	65%	1	1%	4	5%	17	23%	4	5%
FALL 2002											
FAMU	8	4	50%	0	0%	2	25%	1	13%	1	13%
FSU	52	41	79%	1	2%	2	4%	6	12%	2	4%
FALL 2003											
FAMU	9	2	22%	1	11%	2	22%	4	44%	0	0%
FSU	84	60	71%	2	2%	5	6%	11	13%	6	7%
FALL 2004											
FAMU	7	1	14%	0	0%	1	14%	5	71%	0	0%
FSU	88	71	81%	1	1%	4	5%	9	10%	3	3%
FALL 2005											
FAMU	5	0	0%	3	60%	1	20%	0	0%	1	20%
FSU	73	61	84%	0	0%	4	5%	3	4%	5	7%
FALL 2006											
FAMU	14	2	14%	5	36%	4	29%	2	14%	1	7%
FSU	72	64	89%	0	0%	0	0%	8	11%	0	0%
FALL 2007											
FAMU	13	3	23%	2	15%	5	38%	1	8%	2	15%
FSU	78	74	95%	0	0%	3	4%	1	1%	0	0%
FALL 2008											
FAMU	15	1	7%	1	7%	3	20%	8	53%	2	13%
FSU	92	83	90%	0	0%	2	2%	6	7%	1	1%
FALL 2009											
FAMU	19	5	26%	0	0%	7	37%	6	32%	1	5%
FSU	102	77	75%	3	3%	4	4%	18	18%	0	0%
TOTAL											
FAMU	112	26	23%	12	11%	32	29%	32	29%	10	9%
FSU	810	635	78%	8	1%	39	5%	101	12%	27	3%

Source: FAMU and FSU Institutional Research Directors

Prepared by CBT Consultants, September 2014 (2I)

COMPUTER ENGINEERING (14.0901)

COMPUTER 14.0901	Nbr of First-Time Juniors	Graduated in 4 Years in SAME CIP		Graduated in 4 Years but in OTHER 14.xxxx CIP		Graduated in 4 Years, but NOT in 14.xxxx CIP		Did Not Graduate		Graduated but not in 4 Years	
		Nbr	Rate	Nbr	Rate	Nbr	Rate	Nbr	Rate	Nbr	Rate
FALL 1999											
FAMU	0	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a
FSU	0	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a
FALL 2000											
FAMU	2	0	0%	2	100%	0	0%	0	0%	0	0%
FSU	3	1	33%	1	33%	0	0%	1	33%	0	0%
FALL 2001											
FAMU	4	0	0%	1	25%	0	0%	1	25%	2	50%
FSU	18	4	22%	2	11%	4	22%	6	33%	2	11%
FALL 2002											
FAMU	8	4	50%	2	25%	2	25%	0	0%	0	0%
FSU	21	3	14%	6	29%	3	14%	6	29%	3	14%
FALL 2003											
FAMU	10	5	50%	2	20%	1	10%	2	20%	0	0%
FSU	26	4	15%	13	50%	4	15%	5	19%	0	0%
FALL 2004											
FAMU	7	4	57%	1	14%	0	0%	1	14%	1	14%
FSU	21	7	33%	6	29%	3	14%	5	24%	0	0%
FALL 2005											
FAMU	2	2	100%	0	0%	0	0%	0	0%	0	0%
FSU	16	7	44%	4	25%	2	13%	2	13%	1	6%
FALL 2006											
FAMU	1	0	0%	0	0%	0	0%	1	100%	0	0%
FSU	16	6	38%	4	25%	1	6%	3	19%	2	13%
FALL 2007											
FAMU	0	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a
FSU	9	7	78%	0	0%	0	0%	2	22%	0	0%
FALL 2008											
FAMU	1	1	100%	0	0%	0	0%	0	0%	0	0%
FSU	8	3	38%	0	0%	1	13%	3	38%	1	13%
FALL 2009											
FAMU	4	0	0%	0	0%	1	25%	1	25%	2	50%
FSU	20	10	50%	2	10%	1	5%	7	35%	0	0%
TOTAL											
FAMU	39	16	41%	8	21%	4	10%	6	15%	5	13%
FSU	158	52	33%	38	24%	19	12%	40	25%	9	6%

Source: FAMU and FSU Institutional Research Directors

Prepared by CBT Consultants, September 2014 (2I)

Table 2I-2

FAMU-FSU Joint College of Engineering Study — **RFP #2I.2**

Graduation Rates 2004-2013 for Programs in the Joint College

ELECTRICAL ENGINEERING (14.1001)

ELECTRICAL 14.1001	Nbr of First-Time Juniors	Graduated in 4 Years in SAME CIP		Graduated in 4 Years but in OTHER 14.xxxx CIP		Graduated in 4 Years, but NOT in 14.xxxx CIP		Did Not Graduate		Graduated but not in 4 Years	
		Nbr	Rate	Nbr	Rate	Nbr	Rate	Nbr	Rate	Nbr	Rate
FALL 1999											
FAMU	23	11	48%	1	4%	2	9%	7	30%	2	9%
FSU	50	27	54%	1	2%	5	10%	13	26%	4	8%
FALL 2000											
FAMU	23	13	57%	2	9%	1	4%	7	30%	0	0%
FSU	70	38	54%	2	3%	4	6%	19	27%	7	10%
FALL 2001											
FAMU	14	4	29%	4	29%	0	0%	5	36%	1	7%
FSU	69	40	58%	3	4%	7	10%	11	16%	8	12%
FALL 2002											
FAMU	13	7	54%	0	0%	1	8%	4	31%	1	8%
FSU	28	19	68%	1	4%	1	4%	6	21%	1	4%
FALL 2003											
FAMU	15	9	60%	0	0%	2	13%	2	13%	2	13%
FSU	39	26	67%	3	8%	2	5%	6	15%	2	5%
FALL 2004											
FAMU	6	3	50%	0	0%	1	17%	2	33%	0	0%
FSU	44	29	66%	2	5%	3	7%	8	18%	2	5%
FALL 2005											
FAMU	6	2	33%	0	0%	0	0%	3	50%	1	17%
FSU	33	23	70%	0	0%	3	9%	7	21%	0	0%
FALL 2006											
FAMU	4	1	25%	0	0%	0	0%	2	50%	1	25%
FSU	41	28	68%	2	5%	4	10%	5	12%	2	5%
FALL 2007											
FAMU	6	5	83%	0	0%	0	0%	1	17%	0	0%
FSU	20	16	80%	0	0%	1	5%	2	10%	1	5%
FALL 2008											
FAMU	2	1	50%	0	0%	0	0%	1	50%	0	0%
FSU	24	17	71%	2	8%	1	4%	4	17%	0	0%
FALL 2009											
FAMU	4	3	75%	0	0%	0	0%	1	25%	0	0%
FSU	42	22	52%	2	5%	4	10%	14	33%	0	0%
TOTAL											
FAMU	116	59	51%	7	6%	7	6%	35	30%	8	7%
FSU	460	285	62%	18	4%	35	8%	95	21%	27	6%

Source: FAMU and FSU Institutional Research Directors

Prepared by CBT Consultants, September 2014 (2I)

MECHANICAL ENGINEERING (14.1901)

MECHANICAL 14.1901	Nbr of First-Time Juniors	Graduated in 4 Years in SAME CIP		Graduated in 4 Years but in OTHER 14.xxxx CIP		Graduated in 4 Years, but NOT in 14.xxxx CIP		Did Not Graduate		Graduated but not in 4 Years	
		Nbr	Rate	Nbr	Rate	Nbr	Rate	Nbr	Rate	Nbr	Rate
FALL 1999											
FAMU	14	5	36%	0	0%	0	0%	7	50%	2	14%
FSU	37	26	70%	2	5%	1	3%	6	16%	2	5%
FALL 2000											
FAMU	16	11	69%	1	6%	2	13%	2	13%	0	0%
FSU	34	21	62%	2	6%	6	18%	3	9%	2	6%
FALL 2001											
FAMU	3	2	67%	1	33%	0	0%	0	0%	0	0%
FSU	68	43	63%	1	1%	6	9%	12	18%	6	9%
FALL 2002											
FAMU	8	3	38%	0	0%	0	0%	3	38%	2	25%
FSU	45	34	76%	1	2%	1	2%	6	13%	3	7%
FALL 2003											
FAMU	4	2	50%	1	25%	1	25%	0	0%	0	0%
FSU	55	42	76%	3	5%	3	5%	6	11%	1	2%
FALL 2004											
FAMU	6	4	67%	0	0%	0	0%	2	33%	0	0%
FSU	56	39	70%	1	2%	4	7%	9	16%	3	5%
FALL 2005											
FAMU	7	3	43%	0	0%	0	0%	2	29%	2	29%
FSU	67	59	88%	0	0%	1	1%	6	9%	1	1%
FALL 2006											
FAMU	5	3	60%	0	0%	1	20%	1	20%	0	0%
FSU	61	51	84%	1	2%	1	2%	6	10%	2	3%
FALL 2007											
FAMU	0	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a
FSU	61	52	85%	1	2%	2	3%	5	8%	1	2%
FALL 2008											
FAMU	1	0	0%	0	0%	0	0%	1	100%	0	0%
FSU	72	55	76%	0	0%	7	10%	9	13%	1	1%
FALL 2009											
FAMU	2	1	50%	0	0%	0	0%	1	50%	0	0%
FSU	76	58	76%	1	1%	6	8%	11	14%	0	0%
TOTAL											
FAMU	66	34	52%	3	5%	4	6%	19	29%	6	9%
FSU	632	480	76%	13	2%	38	6%	79	13%	22	3%

Source: FAMU and FSU Institutional Research Directors

Prepared by CBT Consultants, September 2014 (2I)

Table 2I-2

FAMU-FSU Joint College of Engineering Study
Graduation Rates 2004-2013 for Programs in the Joint College

RFP #2I.2

INDUSTRIAL ENGINEERING (14.3501)

INDUSTRIAL 14.3501	Nbr of First-Time Juniors	Graduated in 4 Years in SAME CIP		Graduated in 4 Years but in OTHER 14.xxxx CIP		Graduated in 4 Years, but NOT in 14.xxxx CIP		Did Not Graduate		Graduated but not in 4 Years	
		Nbr	Rate	Nbr	Rate	Nbr	Rate	Nbr	Rate	Nbr	Rate
FALL 1999											
FAMU	4	3	75%	0	0%	0	0%	0	0%	1	25%
FSU	15	12	80%	1	7%	1	7%	1	7%	0	0%
FALL 2000											
FAMU	5	4	80%	0	0%	0	0%	1	20%	0	0%
FSU	8	6	75%	0	0%	2	25%	0	0%	0	0%
FALL 2001											
FAMU	4	2	50%	1	25%	0	0%	1	25%	0	0%
FSU	22	18	82%	1	5%	2	9%	1	5%	0	0%
FALL 2002											
FAMU	7	7	100%	0	0%	0	0%	0	0%	0	0%
FSU	18	14	78%	1	6%	0	0%	3	17%	0	0%
FALL 2003											
FAMU	10	8	80%	0	0%	0	0%	1	10%	1	10%
FSU	30	20	67%	1	3%	0	0%	6	20%	3	10%
FALL 2004											
FAMU	3	2	67%	0	0%	1	33%	0	0%	0	0%
FSU	22	19	86%	0	0%	0	0%	2	9%	1	5%
FALL 2005											
FAMU	1	0	0%	0	0%	1	100%	0	0%	0	0%
FSU	18	15	83%	0	0%	1	6%	2	11%	0	0%
FALL 2006											
FAMU	6	3	50%	1	17%	0	0%	2	33%	0	0%
FSU	13	10	77%	0	0%	0	0%	3	23%	0	0%
FALL 2007											
FAMU	0	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a
FSU	9	8	89%	0	0%	0	0%	1	11%	0	0%
FALL 2008											
FAMU	1	1	100%	0	0%	0	0%	0	0%	0	0%
FSU	18	14	78%	0	0%	0	0%	4	22%	0	0%
FALL 2009											
FAMU	2	2	100%	0	0%	0	0%	0	0%	0	0%
FSU	21	17	81%	0	0%	0	0%	4	19%	0	0%
TOTAL											
FAMU	43	32	74%	2	5%	2	5%	5	12%	2	5%
FSU	194	153	79%	4	2%	6	3%	27	14%	4	2%

Source: FAMU and FSU Institutional Research Directors

Prepared by CBT Consultants, September 2014 (2I)

Table 2I-2

FAMU-FSU Joint College of Engineering Study
Graduation Rates 2004-2013 for Programs in the Joint College

RFP #2I.2

OTHER ENGINEERING (14.9999): FSU students in General Classification prior to entering an Engineering major

OTHER 14.9999	Nbr of First-Time Juniors	Graduated in 4 Years in SAME CIP		Graduated in 4 Years but in OTHER 14.xxxx CIP		Graduated in 4 Years, but NOT in 14.xxxx CIP		Did Not Graduate		Graduated but not in 4 Years	
		Nbr	Rate	Nbr	Rate	Nbr	Rate	Nbr	Rate	Nbr	Rate
FALL 1999											
FAMU	0	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a
FSU	19	0	0%	2	11%	8	42%	7	37%	2	11%
FALL 2000											
FAMU	0	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a
FSU	28	0	0%	7	25%	8	29%	10	36%	3	11%
FALL 2001											
FAMU	0	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a
FSU	18	0	0%	3	17%	10	56%	3	17%	2	11%
FALL 2002											
FAMU	0	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a
FSU	34	0	0%	9	26%	9	26%	11	32%	5	15%
FALL 2003											
FAMU	0	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a
FSU	71	0	0%	19	27%	16	23%	33	46%	3	4%
FALL 2004											
FAMU	0	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a
FSU	71	0	0%	17	24%	11	15%	32	45%	11	15%
FALL 2005											
FAMU	0	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a
FSU	84	0	0%	27	32%	20	24%	29	35%	8	10%
FALL 2006											
FAMU	0	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a
FSU	98	0	0%	23	23%	37	38%	26	27%	12	12%
FALL 2007											
FAMU	0	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a
FSU	83	0	0%	19	23%	20	24%	36	43%	8	10%
FALL 2008											
FAMU	0	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a
FSU	107	0	0%	24	22%	27	25%	51	48%	5	5%
FALL 2009											
FAMU	0	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a
FSU	105	0	0%	33	31%	23	22%	49	47%	0	0%
TOTAL											
FAMU	0	0	n/a	0	n/a	0	n/a	0	n/a	0	n/a
FSU	718	0	0%	183	25%	189	26%	287	40%	59	8%

Source: FAMU and FSU Institutional Research Directors

Prepared by CBT Consultants, September 2014 (2I)

Table 2I-3	FAMU-FSU Joint College of Engineering Study Median Tine-to-Degree for Baccalaureates with Degrees in Engineering	RFP #2I.3

MONTHS TO DEGREE: **FIRST TIME IN COLLEGE ONLY**									
UNIV	**2004-2005**	**2005-2006**	**2006-2007**	**2007-2008**	**2008-2009**	**2009-2010**	**2010-2011**	**2011-2012**	**2012-2013**
FAMU	57	57	57	67	60	61	59	59	57
N	*53*	*38*	*42*	*38*	*35*	*26*	*24*	*26*	*23*
FAU	57	58	60	57	58	57	64	57	64
N	*47*	*44*	*48*	*51*	*64*	*54*	*42*	*58*	*83*
FGCU					45	52	57	57	57
N					*12*	*13*	*16*	*24*	*30*
FIU	*63*	*60*	*63*	*64*	*63*	*64*	*62*	*69*	*67*
N	*85*	*83*	*132*	*107*	*125*	*111*	*150*	*104*	*125*
FSU	57	57	57	57	57	57	57	57	57
N	*113*	*126*	*124*	*144*	*146*	*139*	*135*	*173*	*129*
UCF	55	52	57	57	57	57	57	57	57
N	*204*	*203*	*270*	*274*	*221*	*267*	*314*	*336*	*371*
UF	57	57	57	57	57	57	57	57	57
N	*516*	*477*	*515*	*495*	*568*	*622*	*611*	*672*	*685*
UNF	48	57	57	57	57	57	55	57	60
N	*18*	*29*	*21*	*27*	*44*	*45*	*48*	*55*	*37*
USF	57	57	57	60	57	57	57	57	54
N	*123*	*123*	*139*	*138*	*111*	*127*	*134*	*160*	*202*
UWF					57	60	61	57	64
N					*4*	*9*	*6*	*11*	*11*
ALL	57	57	57	57	57	57	57	57	57
N	*1,159*	*1,123*	*1,291*	*1,274*	*1,330*	*1,413*	*1,480*	*1,619*	*1,696*

MONTHS TO DEGREE: **ALL GRADUATES**									
UNIV	**2004-2005**	**2005-2006**	**2006-2007**	**2007-2008**	**2008-2009**	**2009-2010**	**2010-2011**	**2011-2012**	**2012-2013**
FAMU	57	57	57	64	62	57	52	57	57
N	*63*	*47*	*48*	*46*	*42*	*33*	*29*	*30*	*33*
FAU	45	45	52	48	48	48	45	52	50
N	*147*	*130*	*146*	*153*	*166*	*142*	*143*	*141*	*198*
FGCU					45	45	52	45	55
N					*18*	*30*	*39*	*46*	*50*
FIU	*52*	*52*	*51*	*47*	*51*	*52*	*52*	*48*	*51*
N	*216*	*253*	*327*	*294*	*297*	*293*	*342*	*298*	*331*
FSU	52	52	52	52	52	52	52	52	48
N	*197*	*214*	*198*	*233*	*240*	*217*	*219*	*283*	*228*
UCF	48	45	52	48	48	52	52	52	52
N	*390*	*415*	*468*	*515*	*427*	*438*	*515*	*587*	*674*
UF	52	52	52	52	52	52	52	52	52
N	*766*	*750*	*755*	*759*	*844*	*908*	*867*	*929*	*912*
UNF	40	45	45	45	52	48	48	52	40
N	*61*	*76*	*53*	*78*	*76*	*100*	*110*	*119*	*99*
USF	52	52	52	52	50	52	48	48	52
N	*300*	*294*	*376*	*319*	*294*	*334*	*343*	*384*	*414*
UWF					45	40	40	47	45
N					*17*	*33*	*28*	*33*	*43*
ALL	52	52	52	52	52	52	52	52	52
N	*2,140*	*2,179*	*2,371*	*2,397*	*2,421*	*2,528*	*2,635*	*2,850*	*2,982*

Note: Graduates included in this analysis include all student entry types and degree programs with more than 120 student credit hours required.

Source: J.Jones, State University System of Florida

Prepared by CBT Consultants, September 2014 (2B)

Table 2I-3	FAMU-FSU Joint College of Engineering Study Median Tine-to-Degree for Baccalaureates with Degrees in Engineering	RFP #2I.3

YEARS TO DEGREE: **FIRST TIME IN COLLEGE ONLY**									
UNIV	**2004-2005**	**2005-2006**	**2006-2007**	**2007-2008**	**2008-2009**	**2009-2010**	**2010-2011**	**2011-2012**	**2012-2013**
FAMU	4.8	4.8	4.8	5.5	5.0	5.0	4.9	4.9	4.8
FAU	4.8	4.8	5.0	4.8	4.8	4.8	5.3	4.8	5.3
FGCU					3.8	4.3	4.8	4.8	4.8
FIU	5.3	5.0	5.3	5.3	5.3	5.3	5.1	5.8	5.6
FSU	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
UCF	4.6	4.3	4.8	4.8	4.8	4.8	4.8	4.8	4.8
UF	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
UNF	4.0	4.8	4.8	4.8	4.8	4.8	4.5	4.8	5.0
USF	4.8	4.8	4.8	5.0	4.8	4.8	4.8	4.8	4.5
UWF					4.8	5.0	5.0	4.8	5.3
ALL	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8

YEARS TO DEGREE: **ALL GRADUATES**									
UNIV	**2004-2005**	**2005-2006**	**2006-2007**	**2007-2008**	**2008-2009**	**2009-2010**	**2010-2011**	**2011-2012**	**2012-2013**
FAMU	4.8	4.8	4.8	5.3	5.2	4.8	4.3	4.8	4.8
FAU	3.8	3.8	4.3	4.0	4.0	4.0	3.8	4.3	4.1
FGCU					3.8	3.8	4.3	3.8	4.5
FIU	4.3	4.3	4.3	3.9	4.3	4.3	4.3	4.0	4.3
FSU	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.0
UCF	4.0	3.8	4.3	4.0	4.0	4.3	4.3	4.3	4.3
UF	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
UNF	3.3	3.8	3.8	3.8	4.3	4.0	4.0	4.3	3.3
USF	4.3	4.3	4.3	4.3	4.1	4.3	4.0	4.0	4.3
UWF					3.8	3.3	3.3	3.9	3.8
ALL	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3

Note: Graduates included in this analysis include all student entry types and degree programs with more than 120 student credit hours required.

Source: J.Jones, State University System of Florida

Prepared by CBT Consultants, September 2014 (2B)

FAMU-FSU Joint College of Engineering Study **RFP #2JK**

Current and Projected Operating, Capital Infrastructure and Ancillary Services Budgets

Table 2JK **For the Joint College of Engineering**

Fiscal Year	Expenditures to Date	Budget	Current Operating	Current Infrastructure	Ancillary Services
FY 14	**$15,215,201**	**$16,500,987**	**$16,500,987**	**$0**	**$0**
FY 15		**$17,723,066**	**$17,723,066**	**$0**	**$0**
FY 16		*$18,254,758*	*$18,254,758*	*$0*	*$0*
FY 17		*$18,802,401*	*$18,802,401*	*$0*	*$0*
FY 18		*$19,366,473*	*$19,366,473*	*$0*	*$0*
FY 19		*$19,947,467*	*$19,947,467*	*$0*	*$0*
FY 20		*$20,545,891*	*$20,545,891*	*$0*	*$0*
FY 21		*$21,162,268*	*$21,162,268*	*$0*	*$0*
FY 22		*$21,797,136*	*$21,797,136*	*$0*	*$0*
FY 23		*$22,451,050*	*$22,451,050*	*$0*	*$0*
FY 24		*$23,124,581*	*$23,124,581*	*$0*	*$0*

NOTE: Projections were based on an estimated 3% increase on the base per year.
NOTE: Budget includes fringe benefits.

Source: R. Perry, Joint College

Prepared by CBT Consultants, September 2014 (2JK)

Table 2L	FAMU-FSU Joint College of Engineering Study Florida Board of Professional Engineers Licensure Examination Pass Rates	RFP #2L

Notes

* NCESS considers the joint college as a single institution. Therefore, the data reported represent both FAMU and FSU engineering students.

* NCESS reports FE data by pass rates for students currently enrolled and for students who have already graduated.
* NCESS records go back to the 2005-2006 academic year, so no data are available for 2003-2005.
* NCESS database does not identify whether or not a student is taking the test for the first time.

	Fundamental Examination (FE) Pass Rate - Enrolled			Fundamental Examination (FE) Pass Rate-Graduated			Principles & Practice (PE) Pass Rate		
Academic Year	Number Taking Test	Number Passing	Pass Rate	Number Taking Test	Number Passing	Pass Rate	Number Taking Test	Number Passing	Pass Rate
2013-2014	47	39	83%	43	26	60%	80	47	59%
2012-2013	95	68	72%	77	35	45%	76	47	62%
2011-2012	115	83	72%	75	45	60%	66	38	58%
2010-2011	95	73	77%	87	38	44%	92	47	51%
2009-2010	88	52	59%	99	48	48%	103	57	55%
2008-2009	77	60	78%	103	43	42%	99	50	51%
2007-2008	101	75	74%	106	41	39%	83	43	52%
2006-2007	73	44	60%	95	43	45%	74	34	46%
2005-2006	80	47	59%	84	33	39%	105	43	41%
2004-2005	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2003-2004	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Data provided by Rick Burnett of FSU and Kwadwo Owusu-Aduemiri of FAMU

Their data source was NCESS Institutional Reports Website (http://institutions.ncess.org) accesses on 8/11/2014

Report prepared by CBT Consultants, August 2014

VII.B. Tables on Engineering Workforce Needs

Table 7.1 displays the crosswalk between educational programs (CIP codes) and occupations (SOC codes) that we used to complete the gap analysis. Also listed are the adjustment factors which were applied to the annual openings figures for each occupation within each program. The methodology for these factors is described above in the "About the EMSI's Gap Analysis Model" section of this report.

TABLE 7.1: PROGRAM TO OCCUPATION MAPPING WITH EMPLOYMENT ADJUSTMENT FACTORS

					PERCENT OF WORKFORCE WITH GIVEN EDUCATION LEVEL		
CIP	Program	SOC	Occupation	Program Based Weight	Bachelor's Degree	Master's Degree	PhD Degree
14.0301	Agricultural Engineering	17-2021	Agricultural Engineers	100	7	23	100
14.0501	Bioengineering and Biomedical Engineering	17-2031	Biomedical Engineers	75	7	23	100
14.0701	Chemical Engineering	17-2041	Chemical Engineers	100	8	12	100
14.0801	Civil Engineering, General	17-2051	Civil Engineers	99	10	15	100
14.0901	Computer Engineering, General	15-1143	Computer Network Architects	100	27	41	100
		17-2061	Computer Hardware Engineers	100	18	28	100
14.1001	Electrical and Electronics Engineering	17-2071	Electrical Engineers	99	12	21	100
		17-2072	Electronics Engineers, Except Computer	96	12	21	100
14.1901	Mechanical Engineering	13-1051	Cost Estimators	86	55	67	100
		17-2141	Mechanical Engineers	100	14	26	100
		51-8021	Stationary Engineers and Boiler Operators	100	77	88	100
14.3501	Industrial Engineering	17-2112	Industrial Engineers	100	19	28	100

Source: EMSI Gap Analysis Model and United States Department of Labor

TABLE 7.2: PAST EMPLOYMENT CHANGE FOR ENGINEERS BY SOC, 2004-2014

SOC	Title	2004 Jobs	2014 Jobs	2004-2014 Change	2004-2014 % Change	Median Hourly Earnings
17-2051	Civil Engineers	15,954	15,821	(133)	(1%)	$36.46
17-2112	Industrial Engineers	10,461	10,352	(109)	(1%)	$32.95
11-9041	Architectural and Engineering Managers	7,742	7,725	(17)	(0%)	$54.19
17-2071	Electrical Engineers	7,678	7,496	(181)	(2%)	$38.99
17-2199	Engineers, All Other	7,113	7,456	343	5%	$37.36
17-2141	Mechanical Engineers	7,422	6,956	(466)	(6%)	$35.35
17-2072	Electronics Engineers, Except Computer	5,818	5,289	(529)	(9%)	$42.63
17-2011	Aerospace Engineers	3,235	3,374	139	4%	$46.04
17-2081	Environmental Engineers	2,447	2,763	316	13%	$29.72
17-2061	Computer Hardware Engineers	2,419	2,464	44	2%	$43.79
17-2111	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	1,183	1,152	(31)	(3%)	$33.05
17-2031	Biomedical Engineers	748	888	139	19%	$32.65
17-2161	Nuclear Engineers	587	697	110	19%	$39.42
17-2121	Marine Engineers and Naval Architects	627	666	39	6%	$38.39
17-2041	Chemical Engineers	665	579	(86)	(13%)	$32.40
17-2131	Materials Engineers	572	538	(34)	(6%)	$41.30
17-2171	Petroleum Engineers	450	299	(152)	(34%)	$55.77
17-2151	Mining and Geological Engineers, Including Mining Safety Engineers	223	228	4	2%	$34.69
17-2021	Agricultural Engineers	147	172	25	17%	$21.32
	Total	75,492	74,914	(578)	(1%)	$38.89

Source: EMSI Complete Employment, 2014.3

TABLE 7.3: PAST EMPLOYMENT CHANGE FOR ENGINEERS BY SOC, 2004-2014

SOC	Title	2004 Jobs	2014 Jobs	2004-2014 Change	2004-2014 % Change
17-2051	Civil Engineers	15,821	17,910	2,088	13%
17-2112	Industrial Engineers	10,352	11,166	814	8%
11-9041	Architectural and Engineering Managers	7,725	8,492	766	10%
17-2071	Electrical Engineers	7,496	8,154	658	9%
17-2199	Engineers, All Other	7,456	8,387	930	12%
17-2141	Mechanical Engineers	6,956	7,992	1,036	15%
17-2072	Electronics Engineers, Except Computer	5,289	5,755	467	9%
17-2011	Aerospace Engineers	3,374	3,644	270	8%
17-2081	Environmental Engineers	2,763	3,219	456	17%
17-2061	Computer Hardware Engineers	2,464	2,921	458	19%
17-2111	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	1,152	1,311	159	14%
17-2031	Biomedical Engineers	888	1,103	215	24%

17-2161	Nuclear Engineers	697	821	124	18%
17-2121	Marine Engineers and Naval Architects	666	707	41	6%
17-2041	Chemical Engineers	579	707	128	22%
17-2131	Materials Engineers	538	616	79	15%
17-2171	Petroleum Engineers	299	342	44	15%
17-2151	Mining and Geological Engineers, Including Mining Safety Engineers	228	259	31	14%
17-2021	Agricultural Engineers	172	190	18	11%
	Total	74,914	83,696	8,782	12%

Source: EMSI Complete Employment, 2014.3

TABLE 7.4: PAST EMPLOYMENT CHANGE FOR ENGINEERS BY MSA, 2004-2014

MSA Name	2004 Jobs	2014 Jobs	2004 - 2014 Change	2004 - 2014 % Change	Median Hourly Earnings
Orlando-Kissimmee-Sanford, FL	8,817	9,450	633	7%	$36.98
Jacksonville, FL	4,788	5,265	477	10%	$38.15
Crestview-Fort Walton Beach-Destin, FL	1,953	2,341	388	20%	$42.92
Panama City, FL	1,017	1,346	329	32%	$44.18
Punta Gorda, FL	242	235	(7)	(3%)	$37.77
Port St. Lucie, FL	761	753	(8)	(1%)	$35.12
Pensacola-Ferry Pass-Brent, FL	1,204	1,191	(13)	(1%)	$36.81
Deltona-Daytona Beach-Ormond Beach, FL	1,188	1,159	(29)	(2%)	$30.79
Sebastian-Vero Beach, FL	274	239	(35)	(13%)	$33.82
Lakeland-Winter Haven, FL	1,440	1,398	(42)	(3%)	$32.14
Naples-Immokalee-Marco Island, FL	588	525	(63)	(11%)	$36.75
Gainesville, FL	1,082	976	(106)	(10%)	$32.12
Ocala, FL	610	495	(115)	(19%)	$27.37
Cape Coral-Fort Myers, FL	1,149	1,032	(117)	(10%)	$31.68
Tallahassee, FL	1,384	1,265	(119)	(9%)	$34.77
North Port-Sarasota-Bradenton, FL	1,914	1,652	(262)	(14%)	$32.90
Tampa-St. Petersburg-Clearwater, FL	10,155	9,866	(289)	(3%)	$35.89
Miami-Fort Lauderdale-West Palm Beach, FL	17,161	16,763	(398)	(2%)	$35.83
Palm Bay-Melbourne-Titusville, FL	7,018	6,303	(715)	(10%)	$44.87
Total	62,745	62,253	(492)	(1%)	$37.21

Source: EMSI Complete Employment, 2014.3

TABLE 7.5: PROJECTED EMPLOYMENT CHANGE FOR ENGINEERS BY MSA, 2014-2024

MSA Name	2014 Jobs	2024 Jobs	2014 - 2024 Change	2014 - 2024 % Change	Median Hourly Earnings
Miami-Fort Lauderdale-West Palm Beach, FL	16,763	18,373	1,610	10%	$35.83
Orlando-Kissimmee-Sanford, FL	9,450	10,927	1,477	16%	$36.98
Tampa-St. Petersburg-Clearwater, FL	9,866	10,899	1,033	10%	$35.89
Jacksonville, FL	5,265	6,226	961	18%	$38.15

Crestview-Fort Walton Beach-Destin, FL	2,341	2,788	447	19%	$42.92
North Port-Sarasota-Bradenton, FL	1,652	1,847	195	12%	$32.90
Deltona-Daytona Beach-Ormond Beach, FL	1,159	1,347	188	16%	$30.79
Port St. Lucie, FL	753	925	172	23%	$35.12
Lakeland-Winter Haven, FL	1,398	1,569	171	12%	$32.14
Cape Coral-Fort Myers, FL	1,032	1,172	140	14%	$31.68
Panama City, FL	1,346	1,481	135	10%	$44.18
Naples-Immokalee-Marco Island, FL	525	601	76	14%	$36.75
Tallahassee, FL	1,265	1,325	60	5%	$34.77
Ocala, FL	495	552	57	12%	$27.37
Pensacola-Ferry Pass-Brent, FL	1,191	1,229	38	3%	$36.81
Gainesville, FL	976	1,008	32	3%	$32.12
Punta Gorda, FL	235	257	22	9%	$37.77
Sebastian-Vero Beach, FL	239	260	21	9%	$33.82
Palm Bay-Melbourne-Titusville, FL	6,303	5,838	(465)	(7%)	$44.87
Total	62,253	68,624	6,371	10%	$37.21

Source: EMSI Complete Employment, 2014.3

TABLE 7.6: PROJECTED EMPLOYMENT CHANGE FOR ENGINEERS IN SURROUNDING MSAS, 2014-2024

MSA Name	2014 Jobs	2024 Jobs	2014 - 2024 Change	2014 - 2024 % Change	Average Annual Job Openings
Atlanta-Sandy Springs-Roswell, GA	25,321	27,647	2,326	9%	962
Raleigh, NC	8,544	10,377	1,833	21%	423
Virginia Beach-Norfolk-Newport News, VA-NC	12,494	13,957	1,463	12%	505
Charlotte-Concord-Gastonia, NC-SC	10,377	11,737	1,360	13%	429
Huntsville, AL	12,406	13,689	1,283	10%	448
Charleston-North Charleston, SC	5,481	6,697	1,216	22%	292
Greenville-Anderson-Mauldin, SC	6,538	7,737	1,199	18%	331
New Orleans-Metairie, LA	7,138	8,154	1,016	14%	323
Baton Rouge, LA	6,571	7,580	1,009	15%	284
Nashville-Davidson--Murfreesboro--Franklin, TN	7,508	8,393	885	12%	309
Memphis, TN-MS-AR	5,338	6,028	690	13%	222
Durham-Chapel Hill, NC	4,641	5,319	678	15%	193
Birmingham-Hoover, AL	5,566	6,239	673	12%	229
Augusta-Richmond County, GA-SC	4,321	4,902	581	13%	186
Mobile, AL	2,355	2,915	560	24%	128
Greensboro-High Point, NC	3,196	3,616	420	13%	136
Montgomery, AL	1,997	2,406	409	20%	99
Columbia, SC	4,468	4,861	393	9%	180
Jackson, MS	2,321	2,711	390	17%	106
Knoxville, TN	6,054	6,418	364	6%	218

Source: EMSI Complete Employment, 2014.3

TABLE 7.7: TOP 13 INDUSTRY GROUPS FOR ENGINEERS IN THE TALLAHASSEE MSA BY 2014 EMPLOYMENT

NAICS	Industry	Engineers Employed in Industry (2014)	Engineers Employed in Industry (2024)	Change (2014 - 2024)	% Change (2014 - 2024)	% of Engineers in Industry (2014)	% of Engineers in Industry (2024)
9029	State Government, Excluding Education and Hospitals	487	498	11	2%	38.5%	37.6%
5413	Architectural, Engineering, and Related Services	336	354	18	5%	26.5%	26.7%
9039	Local Government, Excluding Education and Hospitals	43	46	3	7%	3.4%	3.4%
9011	Federal Government, Civilian	37	37	0	0%	2.9%	2.8%
9026	Education and Hospitals (State Government)	36	37	1	3%	2.8%	2.8%
3339	Other General Purpose Machinery Manufacturing	34	36	2	6%	2.7%	2.7%
5416	Management, Scientific, and Technical Consulting Services	31	43	12	39%	2.5%	3.2%
5415	Computer Systems Design and Related Services	26	30	4	15%	2.0%	2.3%
3344	Semiconductor and Other Electronic Component Manufacturing	23	<10	--	--	1.8%	1.0%
2362	Nonresidential Building Construction	18	17	(1)	(6%)	1.4%	1.3%
2211	Electric Power Generation, Transmission and Distribution	12	14	2	17%	1.0%	1.1%
5613	Employment Services	12	13	1	8%	0.9%	1.0%
5511	Management of Companies and Enterprises	10	14	4	40%	0.8%	1.0%

Source: EMSI Complete Employment, 2014.3

TABLE 7.8: TOP 15 INDUSTRY GROUPS FOR ENGINEERS IN THE PANAMA CITY MSA BY 2014 EMPLOYMENT

NAICS	Industry	Engineers Employed in Industry (2014)	Engineers Employed in Industry (2024)	Change (2014 - 2024)	% Change (2014 - 2024)	% of Engineers in Industry (2014)	% of Engineers in Industry (2024)
5413	Architectural, Engineering, and Related Services	567	646	79	14%	42.1%	43.6%
9011	Federal Government, Civilian	250	236	(14)	(6%)	18.5%	15.9%
3366	Ship and Boat Building	124	173	49	40%	9.2%	11.7%
9029	State Government, Excluding Education and Hospitals	41	43	2	5%	3.0%	2.9%
5417	Scientific Research and Development Services	33	30	(3)	(9%)	2.4%	2.0%
3339	Other General Purpose Machinery Manufacturing	32	33	1	3%	2.4%	2.2%

9039	Local Government, Excluding Education and Hospitals	30	33	3	10%	2.3%	2.2%
5416	Management, Scientific, and Technical Consulting Services	22	25	3	14%	1.6%	1.7%
5172	Wireless Telecommunications Carriers (except Satellite)	17	19	2	12%	1.3%	1.3%
3221	Pulp, Paper, and Paperboard Mills	15	11	(4)	(27%)	1.1%	0.7%
3251	Basic Chemical Manufacturing	15	14	(1)	(7%)	1.1%	1.0%
2211	Electric Power Generation, Transmission and Distribution	14	14	0	0%	1.1%	0.9%
5613	Employment Services	12	15	3	25%	0.9%	1.0%
4881	Support Activities for Air Transportation	12	17	5	42%	0.9%	1.2%
5171	Wired Telecommunications Carriers	10	<10	--	--	0.8%	0.7%

Source: EMSI Complete Employment, 2014.3

TABLE 7.9: SUMMARY OF BACHELOR'SGRADUATES IN ENGINEERING DISCIPLINES, 2011 TO 2013

Row Labels	Agricul-tural	Bio and Bio-medical	Chemical	Civil	Computer	Electrical and Electronics	Indust-rial	Mech-anical	Total
University of South Florida-Main Campus			33	33	24	47	26	47	211
University of Central Florida				49	25	52	26	52	204
University of Florida	0		34	44	35	41		45	200
Florida International University		22		49	23	42		33	170
Florida Institute of Technology			17	28	14	41		46	146
University of Miami		35		17	10	17	26	28	132
Florida State University			***13***	***38***	***9***	***25***	***15***	***25***	***125***
Florida Atlantic University				39	20	28		23	110
University of North Florida				29		21		21	72
Embry-Riddle Aeronautical University-Daytona Beach					12	4		28	44
Florida Gulf Coast University		7		25					33
Florida Agricultural and Mechanical University	***2***		***4***	***7***	***2***	***5***	***4***	***6***	***30***
The University of West Florida					5	20			25
Polytechnic University of Puerto Rico-Orlando				7	2	8			18

Bethune-Cookman University					5				5
Grand Total	2	64	101	366	186	352	99	353	1,523

Source: Florida Board of Governors, Florida Independent Colleges & Universities, IPEDS and EMSI

TABLE 7.10: SUMMARY OF MASTER'S GRADUATES IN ENGINEERING DISCIPLINES, 2011 TO 2013

Row Labels	Agricul-tural	Bio and Bio-medical	Chemical	Civil	Computer	Electrical and Electronics	Indust-rial	Mech-anical	Total
University of Florida	0	18	19	52	36	46		34	205
University of Central Florida				26	18	31	63	27	165
University of South Florida-Main Campus		10	7	26	21	38	4	18	125
Florida Institute of Technology			8	7	3	34		14	67
Florida International University		7		24	6	17		9	62
University of Miami		15		8		3	20	3	49
Florida State University		***2***	***2***	***12***		***14***	***6***	***9***	***45***
Florida Atlantic University		5		10	11	6		8	40
Embry-Riddle Aeronautical University-Daytona Beach						3		20	23
University of North Florida				4		5		2	11
Florida Agricultural and Mechanical University		***0***	***0***	***3***		***1***	***2***	***1***	***8***
Grand Total	0	58	37	172	94	199	95	145	800

Source: Florida Board of Governors, Florida Independent Colleges & Universities, IPEDS and EMSI

TABLE 7.11: SUMMARY OF PHD GRADUATES IN ENGINEERING DISCIPLINES, 2011 TO 2013

Row Labels	Agricul-tural	Bio and Bio-medical	Chemical	Civil	Computer	Electrical and Electronics	Indust-rial	Mech-anical	Total
University of Florida	0	12	11	13	18	25		20	98
University of South Florida-Main Campus		2	4	9	6	10	5	4	41
University of Central Florida				5	4	12	8	5	34
Florida International University		5		7		9		1	22
University of Miami		7		4		5	1	3	21
Florida State		***2***	***1***	***2***		***4***	***3***	***6***	***17***

University									
Florida Atlantic University					2	2		1	5
Florida Institute of Technology				1	0	2		1	5
Florida Agricultural and Mechanical University			***1***	***0***		***1***		***1***	***3***
Grand Total	0	27	18	41	31	70	17	42	246

Source: Florida Board of Governors, Florida Independent Colleges & Universities, IPEDS and EMSI

Differences between EMSI's Engineering analysis and Florida Bureau of Labor Market Statistics (LMS)

High Level Differences:

- CBT and EMSI's analysis uses a broader array of industry data sources to capture the self-employed. Generally speaking, industry employment data are considered by labor economists to be more accurate and all-encompassing than occupational employment data, so EMSI uses industry-data to augment raw occupational data available from the federal government. This technique results in a more precise figure for number of workers counted than if we relied exclusively on raw occupational data.
- EMSI does not use job postings to calculate short-term demand, because job postings are very imprecise measure of actual job creation over time. Rather when producing gap analyses such as this, we focus on forecasting mid- and long-term demand using traditional labor market data sources.
- Like LMS, EMSI produces our own occupational employment projections. Little information is publically available on LMS's projection methodology so we cannot comment on it. EMSI utilizes a form of an autoregressive integrated moving average (or ARIMA) model to project employment into the future. This model allows us to forecast based on employment changes in the recent past but still allows flexibility to make custom changes to forecasts based on foreseeable changes to the economy in the near-term future.
- Florida's Occupational Supply/Demand (S/D) System captures a broad group of potential supply sources including workforce training act (WIA) training enrollees and completers, enrollees and completers from postsecondary institutions, and jobseekers with known desired occupations. EMSI's approach takes the more conservative stance by just calculating the number of completers from postsecondary institutions, under the assumption that not all students who are enrolled will necessarily complete their program of study. Data on WIA completers and jobseekers were not used by EMSI because these data were not publically available at our necessary level of geographic specificity.
- EMSI uses a proprietary weighting technique to prevent double counting of educational program completers. EMSI uses the same spider-web crosswalk between educational programs and occupations that are used by most entities, but we apply further economic modeling techniques to ensure that every 1 program completer is only counted 1 time toward occupational demand projections.

There are several key differences between the data published by CBT and EMSI and the data published by LMS. The two basic categories of differences are data source differences, and modeling differences. Each are separately addressed below:

Data Source Differences:

For its long-term occupational projections LMS primarily relies upon Occupational Employment Statistics (OES) from the United States Bureau of Labor Statistics (BLS). Though OES is a solid starting point, EMSI's research has indicated that it does not exhaustively cover all employment in the labor force. According to the BLS, OES quantifies full- and part-time workers who are paid a wage or salary. Several notable categories excluded from this survey are the self-employed, and owners or partners in unincorporated firms.

EMSI supplements our published occupational data using a group of industry data sources that better capture some of the excluded categories mentioned above. A list of all industry data sources utilized by EMSI are listed below under "EMSI Industry Data Sources." Since there are more reliable and more exhaustive sources of industry data than occupational data, once our industry data is compiled we hold those data fixed and augment the available OES data and ensure that it adds up to regional industry employment totals.

Modeling Differences:

LMS produces short-term and long-term projections using two different sources. Short-term projections rely on The Conference Board's Help Wanted OnLine (HWOL) monthly job postings data. Long-term projections rely on The Department of Economic Opportunity's Labor Market Statistics' average annual projected openings. For the occupational employment data in this report EMSI did not produce separate short-term and long-term projections, but rather used a five year time frame (2014-2019) to produce average annual openings figures. EMSI's research has indicated that job postings data tend to overestimate demand in categories that are based in technology, education, and business, and significantly underestimate demand in other fields such as manufacturing, transportation, and mining.

Like LMS, EMSI produces our own occupational employment projections. Little information is publically available on LMS's projection methodology so we cannot comment on it. EMSI utilizes a form of an autoregressive integrated moving average (or ARIMA) model, to project employment into the future. This model allows us to forecast based on employment changes in the recent past but still allows flexibility to make custom changes to forecasts based on foreseeable changes to the economy in the near-term future.

There are several other key methodological differences between EMSI's analysis and the Florida's Occupational Supply/Demand (S/D) System. Florida's S/D system captures a broader group of potential supply sources including workforce training act (WIA) training enrollees and completers, enrollees and completers from postsecondary institutions, and jobseekers with known desired occupations. Alternatively, EMSI's approach takes the more conservative stance by just calculating the number of completers from postsecondary institutions, under the assumption that not all students who are enrolled will necessarily complete their program of

study. Data on WIA completers and jobseekers were not used by EMSI because these data were not publically available at the level of geographic specificity required for our modeling techniques.

Secondly, EMSI uses two proprietary modeling techniques in calculating demand for occupations. The first is "program based weighting." EMSI uses the same spider-web crosswalk between educational programs and occupations that are used by most entities, but we apply further economic modeling techniques to ensure that every 1 program completer is only counted 1 time toward occupational demand projections. EMSI uses a formula that favors program types with the largest number of completers, attributing a greater proportion of demand to these than the programs that produce a smaller number of completers. The second technique is educational level weighting EMSI calculates the number of regional annual job openings for engineering occupations at three different levels of postsecondary training. Using data from the federal BLS EMSI adjusts the annual opening estimates for each SOC code to only incorporate the percentage of workers for three different educational levels that correspond with each engineering occupation. Not taking into account the educational attainment dynamics in this way would bias the result by over-counting potential job opportunities for completers. Given the changing dynamics and need for more education in the existing workforce (i.e., skills-biased technology change in many occupations and industry sectors), this assumption should be considered conservative.

EMSI Industry Data Sources:

Bureau of Labor Statistics

- Current Employment Statistics
- Local Area Unemployment Statistics
- National Employment Projections
- Quarterly Census of Employment and Wages

Bureau of Economic Analysis

- Local Area Personal Income
- State Personal Income

Census Bureau

- American Community Survey
- County Business Patterns
- Nonemployer Statistics
- Quarterly Workforce Indicators
- ZIP Code Business Patterns

VII.C Research Process

The research process carried out by the CBT cUC onsulting team consisted of three independent segments: economic forecasting, institutional research, and interviews/focus groups.

In the economic forecasting, Brian Points used national databases and proprietary forecasting models to predict needs for various engineering disciplines over the next decade. Mr. Points relied heavily on the EMSI's Gap Analysis model to determine the supply and demand dynamics of the engineering labor force in Florida. This model ensures conservative measures and no duplicative counting of employment in association with educational programs.

In conducting institutional research, Mary Harrington gathered data from public and private universities in Florida that offer engineering programs, enabling her to develop a comprehensive picture of engineering across the state, including enrollment trends, degree production, faculty and staff levels, budgets, endowments, and licensure pass rates. She also worked closely with the IR Directors at FAMU and FSU, as well as personnel at the Joint College and at the State University System, to develop a detailed picture of the Joint College relative to other engineering programs.

In the interview and focus group meetings, Robert Dixon, James Bean and Richard Warder met with the leadership of the State University System, leadership of FAMU and FSU, leadership of the Joint College, the Joint College ABET team, faculty, staff, students, alumni and external advisors in the Joint College. This provided a rich catalogue of perceptions, anecdotes and emotions surrounding the strengths and challenges of the Joint College and the two proposed models.

VII.D. Research Team

James Bean, Co-Lead

James Bean has extensive experience building and evaluating cross-unit programs, particularly those involving engineering. He served on the development team for the Tauber Institute for Global Operations and Engineering Global Leadership Honors Program at the University of Michigan (UM). He was a presidential appointee to the Corporation Visiting Committee for Engineering Systems at MIT and a gubernatorial appointee as advisory member of the Oregon Innovation Council, home of the Oregon Nanoscience and Microtechnologies Institute, a cross-university engineering program.

Bean is a trustee at Harvey Mudd College where he serves as vice-chair of the Budget and Financial Planning Committee.

At the UM, he was on the industrial engineering faculty for twenty-four years and served as associate dean for graduate education and international programs, and later associate dean for academic affairs. In the latter role he supervised all faculty, budget and facilities issue at UM Engineering.

At Oregon he served as dean of the Lundquist College of Business and provost of the university. In the latter role he served as chief academic officer for the university. Through these roles he developed substantial experience with a state system of higher education and legislative testimony.

Bean has substantial experience with STEM diversity programs at UM and Harvey Mudd. He has worked with several HBCUs in program development while at UM.

Bean holds a Ph.D. in operations research from Stanford University and a B.S. in mathematics from Harvey Mudd College.

Robert Dixon, Co-Lead

Robert Dixon has served in academe as a provost, vice president for academic affairs, dean, department chair and professor, and in the private sector as the director of a major project for an engineering firm. He has led academic reorganizations, curriculum revisions, and numerous program and institutional accreditations. He has developed and managed grants and contracts, interacted with public and private boards, federal and state agencies, corporate and foundation leaders, while advancing the missions of the institutions that relied on his leadership.

During his career he has developed and expanded opportunities for African Americans and other underrepresented minorities in mathematics, physics, and engineering. He is the founding chair of the M. S. degree program in physics at Atlanta University (now Clark Atlanta University [CAU]). While serving for sixteen years as chair of the department of physics at Morehouse College he strengthened the dual-degree engineering program between Morehouse College and the Georgia Institute of Technology (Georgia Tech). It was during this period that Georgia Tech was the leading producer of African Americans with the B.S. degree in engineering. He has also worked to expand the participation of minority scientists in research. While working with an engineering firm, he managed a project funded by the Department of Energy to conduct research on a nuclear waste disposal problem. The project involved seven studies at five institutions: Atlanta University (now CAU), Georgia Tech, Jackson State University, the Morehouse School of Medicine, and Morgan State University.

Robert Dixon has had a diverse set of consulting experiences. For example he has worked with the Woodrow Wilson National Fellowship Foundation, Educational Testing Service (ETS), several universities and public school systems, the Environmental Protection Agency, the Center for Nuclear & High Energy Physics at Hampton University, and the Gateway Coalition, an NSF funded consortium of engineering schools that focused on improving engineering education at the undergraduate level. The coalition consisted of Columbia University, Cooper Union, Drexel University, New Jersey Institute of Technology, Ohio State University, Polytechnic University (now NYU Polytechnic School of Engineering), and the University of South Carolina. To expand engineering opportunities for Morehouse College students he established a dual-degree

engineering program with Columbia University. His work with the Gateway Coalition resulted in the establishment of dual-degree engineering programs between Spelman College and Columbia University and between Talladega College and the University of South Carolina.

During his career, Robert Dixon has sought through his teaching to increase the number of African Americans and other minorities pursuing careers in STEM fields, many of whom obtained subsequently the Ph.D. in physics, engineering, and mathematics. Robert Dixon received the B.S. degree in physics and mathematics with high honors from Morehouse College, the M.S. in nuclear physics from Rutgers University, and the Ph.D. in theoretical nuclear physics from the University of Maryland at College Park.

Mary Harrington, Senior Consultant

Mary Harrington has served in a number of leadership roles during her career at the University of Mississippi. As Director of Institutional Research and Assessment for the past 12 years, she has been responsible for collecting and strategically analyzing data to support the institution's key initiatives, such as retention, graduation, and enrollment management. She is responsible for institutional effectiveness initiatives campus-wide, including the assessment of academic, administrative, research, and public service units. Her responsibilities were recently expanded to include institutional strategic planning.

Harrington is very active in the Southern Association of Colleges and Schools Commission on Colleges (SACS-COC) arena, having served on numerous On-Site and Off-Site Accreditation Review Teams at major research institutions throughout the southeast since 2009. She served as Program Chair for the 2012 SACS-COC Annual Meeting, and has presented invited workshops and sessions at Annual Meetings, the Summer Institute, and at SACS-COC staff retreats. Annually since 2009, she has joined the SACS-COC staff in conducting a full-day training program for individuals who plan to serve on Review Teams as an Institutional Effectiveness evaluator.

As Co-Chair of Ole Miss' SACS-COC Reaffirmation Team from 2008-2010, Harrington authored and coordinated responses to many key Standards. She has served as a consultant for numerous

private and public institutions as they prepared for their SACS-COC reaffirmation, with a particular focus on the organization and completeness of institutions' Compliance Reports and Fifth-Year Interim Reports. She has also conducted numerous multi-day workshops on institutional effectiveness at institutions throughout the country.

Harrington is very active in professional organizations, such as the Southern Association of Institutional Researcher (SAIR), of which she is currently President. She has given numerous presentations and workshops at SAIR, as well as at national affiliate (AIR) and the Mississippi affiliate (MAIR) conferences. She is the most recent recipient of the Jim Nichols Service Award in Institutional Research, received the SAIR Best Paper Award, and the AIR Best Visual Presentation Award. She is a member of the Class of Mississippi Women of Distinction, and was recognized for Women's Leadership on campus.

Prior to her involvement in the institutional research area, Harrington's experience was in the area of Information Technology. As Director of Administrative Computing at the University of Mississippi from 1998-2003, she was responsible for the University's Student Information System, as well as its Human Resource and Financial Systems. She graduated Summa Cum Laude from the University of Mississippi with a B.A. and M. A. in Mathematics. Officially retiring on June 30, 2014 after 36 years at Ole Miss, Harrington will continue to work part-time for the Provost as Director Emerita of Institutional Research and Assessment.

Richard Warder, Senior Consultant

Richard Warder is the one of the most respected engineering education professionals in the U.S. He has been widely sought out for his coaching and pre- accreditation services at more than three dozen colleges and schools including most recently: the University of Puerto Rico (2014), University of Central Florida (2014) Illinois Institute of Technology (2014), California State University, Fullerton (2013), Northeastern University (2013), Texas Tech University (2011), University at Buffalo (SUNY; 2013), University of Connecticut (2012), University of Florida (2011), University of Houston (2013), and Vanderbilt University (2012).

Warder is former dean of the Herff College of Engineering at the University of Memphis, and Chair & James C. Dowell Professor in the Department of Mechanical

& Aerospace Engineering at the University of Missouri, Columbia. He has been a section head and program manager at the NSF and is a Fellow of the American Society of Mechanical Engineering and the American Association for the Advancement of Science.

Warder holds a Ph.D. and M.S. from Northwestern University in Mechanical Engineering, and a B.S. from the South Dakota School of Mines & Technology in Mechanical Engineering.

Brian Points, Workforce Economist

Brian Points has directed over fifty consulting projects for clients in education, workforce development, and economic development over the past decade. Currently, Points manages custom consulting engagements using a host of standardized products including those developed by the Economic Modeling Specialists International (EMSI) for educational gap analyses, student résumé analyses, program specific economic impact analyses, and workforce investment act (WIA) scorecard reports. Recent custom consulting work led by Points includes contributions to the New Skills at Work initiative for JP Morgan Chase, an economic impact study for Bloomsburg University in Pennsylvania, and an assessment of the creative economy for the state of Mississippi.

Points has a diverse skill set, being equally capable of employing sophisticated quantitative methods and conducting qualitative studies via interviews, focus groups and surveys. In previous consulting engagements he developed econometric models to forecast visitor spending for tourists, visitation to state parks in Virginia, and the student success at community colleges based on socioeconomic characteristics. He has also developed and implemented surveys for audiences as diverse as high school students, private companies, and community college educators. Mr. Points received a

B.A. in history from the University of Idaho and an M.A. in Economics from the University of California, Santa Barbara.