



**21<sup>st</sup> CENTURY  
TECHNOLOGY, RESEARCH, AND SCHOLARSHIP  
ENHANCEMENT ACT**

**2006 Annual Report**

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## APPENDICES

## **I. Introduction**

The 2006 Florida Legislature passed House Bill 1237 which created the 21<sup>st</sup> Century Technology, Research, and Scholarship Enhancement Act (see Appendix A). The Act created three primary programs: the 21<sup>st</sup> Century Centers of Excellence Program, the 21<sup>st</sup> Century World Class Scholars Program, and the State University System Research and Economic Development Investment Program. The legislation identified the following stated purposes of these programs:

- Investing in programs that attract world class scholars and building centers of excellence as an important means of increasing technology-based business in this state;
- Requiring co-investment as a means of leveraging state dollars;
- Aligning research and development efforts with established, statewide economic-development strategies, including an emphasis on identified economic clusters;
- Facilitating value-added job creation through continuous improvement in university research, as well as entrepreneurship and capital-development programs; and
- Establishing Florida as a leading state for entrepreneurship and innovation, with continued commitment to university centers of excellence and an expanding base of research and development.

## **II. The Florida Technology, Research, and Scholarship Board**

To direct the implementation of the legislation, the Florida Technology, Research, and Scholarship Board was established. The board consists of 11 members: five members appointed by the Governor, three members by the President of the Senate, and three members by the Speaker of the House of Representatives (see Appendix B). Appointed for four years, members were chosen as being representative of business leaders, industrial researchers, academic researchers, scientists, and leaders in the emerging and advanced technology sector. The legislation directed the Board of Governors to provide staff support and expenses associated with the activities of the board, although no funding was allocated by the Legislature to meet these expenses.

The Board was charged with recommending criteria to the Board of Governors for the 21<sup>st</sup> Century World Class Scholars Program and with providing guidance to the Board of Governors regarding the selection, implementation, and administration of the Centers of Excellence Program. Notwithstanding its added responsibilities, this eleven member board is in effect a reconstitution of the Florida Emerging Technologies Commission which was legislatively created by similar legislation in 2002. The sole responsibility of the former board was to

recommend the creation of centers of excellence to the State Board of Education which, at that time, was responsible at the state level for virtually all of higher education in Florida.

### **III. 2002 Emerging Technology Commission**

The 2002 Legislature appropriated \$30 million to establish centers of excellence in the State and the Emerging Technology Commission recommended funding at \$10 million each for three of 16 proposals that it reviewed:

1. The Center of Excellence in Biomedical and Marine Biotechnology at Florida Atlantic University, which focuses on the discovery and development of compounds and medicines capable of treating various diseases including cancer, cardiovascular disease, and arthritis.
2. The Florida Photonics Center of Excellence at the University of Central Florida, which builds upon efforts to make Florida a world leader in optics, lasers, and photonics research and education, with a focus on nanophotonics and biophotonics.
3. The Center of Excellence in Regenerative Health Biotechnology at the University of Florida, which focuses on developing probiotics and gene therapies for treating cancer and genetic diseases.

### **IV. 21<sup>st</sup> Century World Class Scholars Program**

The 21<sup>st</sup> Century World Class Scholars program, which provided matching funds to state universities, was created in order to attract nationally-recognized faculty in the areas of science, technology, engineering, and mathematics ("STEM"). For the 2006-07 fiscal year, \$20 million was allocated for this program. The 21<sup>st</sup> Century legislation provided guidelines for the Board of Governors to consider in developing its criteria for an award to recruit researchers and/or investigators who have high academic credentials and demonstrated competence and experience that meet the requirements established by the Board.

The BOG Research and Economic Development Committee identified five criteria areas (see Appendix C) and assigned points with a weighted scale for the evaluation of university proposals based on the criteria. A priority of the Committee was the determination that the university demonstrate a strong recruitment strategy for the hiring of world-class faculty, with a plan that included intentions of who was being recruited and in what field, amounts of state and non-state matching funds, timelines, and whether or not cash was in hand, pledged or simply being contemplated.

The application and award process for the 21<sup>st</sup> Century Scholar program required that the Committee review and select from the pool of potential

candidates submitted prior to the program's submission deadline of September 15, 2006. Six universities submitted a total of 26 proposals (see Appendix D) requesting support for scholars, as follows:

**Table I**

<b>University</b>	<b>Number of Proposals</b>	<b>Total Funding Request</b>
University of Florida	7 proposals	\$16,639,559
University of South Florida	7 proposals	\$13,214,060
Florida State University	5 proposals	\$13,125,010
University of Central Florida	4 proposals	\$ 5,200,000
Florida International University	2 proposals	\$ 2,000,000
Florida Atlantic University	1 proposal	\$ 1,000,000

The BOG Research and Economic Development Committee identified university submissions that clearly demonstrated institutional eligibility and that targeted the types of candidates who best met the intent of the legislation for optimal impact of the program. See Table II below.

**Table II**

## 2006 21<sup>st</sup> Century Scholars \*

University	World Class Scholar	Academic Field	Award Level	Status
UF	Dr. Linda Bartoshuk	Behavioral Neuroscience	\$3 M	Hired
UF	Dr. Martin Glicksman	Materials Science and Engineering	\$1 M	Hired
UF	Dr. Grant McFadden	Molecular Genetics / Microbiology	\$1 M	Hired
UF	Dr. Scott Perry	Materials Science and Engineering	\$1 M	Hired
UF	Dr. Johannes Vieweg	Genetic and Cellular Immunology	\$1 M	Hired
UF	Dr. Kirk Conrad	Functional Genomics	\$1 M	Hired
FSU	Dr. David Larbalestier	Mechanical Engineering / Applied Superconductivity	\$3M	Hired
FSU	Dr. Eric Hellstrom	Mechanical Engineering / Applied Superconductivity	\$1M	Hired
FSU	Dr. David Gilbert	Biological Sciences / Molecular Biology	\$1 M	Hired
USF	Dr. Jeffrey Robert Gruen	Developmental Pediatrics / Learning Disabilities	\$1M	Letter of Intent Signed
USF	Dr. Thomas Unnasch	Infectious Disease and Biodefense	\$1M	Contract Signed
USF	Dr. David Hui	Molecular Medicine	\$1M	Letter of Intent Signed
USF	Dr. Richard Gitlin	Pattern Recognition	\$1M	Letter of Intent Signed
UCF	Dr. Marwan Simaan	Electrical Engineering / Signal Processing	\$1M	Letter of Intent Signed
UCF	Dr. D.W.van der Weide	Optics and Photonics	\$1M	Letter of Intent Signed
FIU	Dr. Joleigh Simpson	Bionanotechnology	\$1M	Contract Signed

\* as of February 27, 2007

## V. 21<sup>st</sup> Century Centers of Excellence Program

The 21<sup>st</sup> Century Centers of Excellence program was created by the 2006 Legislature to provide Florida with a clear position of leadership in key emerging technology areas with the unique potential for economic and societal impact in the future, through the development of centers of excellence. For the 2006-07 fiscal year, \$30 million was allocated for this program.

The Florida Technology, Research and Scholarship Board recommended to the Board of Governors the qualifications, standards, and requirements for approval of investments in centers of excellence. The Board was encouraged to consult with Enterprise Florida, Inc., the Florida Research Consortium, Bio-Florida, IT

Florida, the Florida Aviation Aerospace Alliance, and any other entity whose input might be helpful in determining the requirements and standards for the program. The Board approved a series of criteria (See Appendix E) for the evaluation of university proposals, including general and specific success factors and a weighted scale of the following evaluation criteria:

- Vision
- Research Focus
- Economic Impact
- Collaboration
- Leadership and Management
- Leveraging Resources
- Workforce

The Board received 32 proposals from individual universities, collaborative groups of universities and stand-alone institutes (see Appendix F) and reviewed the proposals based on the established criteria. From this review, the Board identified 19 proposals (see Table III below) as finalists and requested each institution to make an oral presentation of their proposal.

### **Table III**

## 2006 Center of Excellence Finalists

Offering Institution(s)	Center Name
FAU	Center of Excellence in Ocean Energy Technology
UCF	Florida Photonics Center of Excellence (FPCE) Laser Technology Initiative (LTI)
UCF	Florida Imaging Science Center (FISC)
UCF, UF	Center of Excellence for Research and Technology for Space (CERTS)
UCF, FSEC	Center of Excellence for Florida's Energy Future: Developing Photovoltaics, Hydrogen and Fuel Cell Technologies
FIU	Florida Center of Excellence in Hurricane Damage Mitigation
FIU, UCF, FGCU	Florida Center of Excellence for Biomedical Nanotechnology
Moffitt	Center for Nanotechnology Sensors and Systems for the Early Detection of Cancer
UF	Florida Institute for Sustainable Energy (FISE) Energy Technology Incubator
UF	Center of Excellence for Pathogen Protections (COEPP)
IHMC	Center of Excellence in Human Performance Enhancement and Restoration
UF	Center for Nano-Bio Sensors
FSU	Florida Applied Superconductivity Center of Excellence (FASCOE)
FSU	Center of Excellence in Advanced Materials (CEAM)
FSU	Power and Energy Center of Excellence
FSU	Florida's Bio-Nanotechnology Nexus (NanoNext)
USF	Florida Center for Excellence in Pattern Recognition
USF	Florida Center for Excellence for Biomolecular Identification & Targeted Therapeutics
Moffitt	Center of Excellence in Drug Discovery & Development (CED <sup>3</sup> )

The Florida Technology, Research and Scholarship Board met November 12-13, 2006 to consider oral presentations from the 19 university proposals and make recommendations to the Board of Governors. A subsequent conference call was held to correct a tabulation error of board votes that had resulted in an inaccurate ranking of the proposals. Following a review of the corrected proposal rankings, the Board forwarded its rank order recommendations to the Research and Economic Development Committee of the Board of Governors.



At its November 16, 2006 meeting, the Board of Governors recommended the establishment of six centers of excellence in the State and the distribution of the \$30 million appropriation as follows.

**1. Florida Center for Excellence in Biomolecular Identification & Targeted Therapeutics (FCoE-BITT) - University of South Florida - \$ 8,000,000**

The objective of FCoE-BITT is to stimulate economic growth of the biotechnology industry in the Tampa Bay region and the State of Florida, by integrating innovative bio-molecular identification technologies for response to and treatment of biological threats and translating these technologies to commercial products to benefit the environment and the public health.

**2. Center of Excellence in Ocean Energy Technology (COEOET) - Florida Atlantic University - Florida Atlantic University - \$ 5,000,000**

The COEOET will be a synergistic partnership among academia, industry, and state and federal agencies that will foster the research, design, development, implementation, testing, and commercialization of cutting-edge ocean energy technology that is cost-competitive with existing fossil-fuel-based power generation.

**3. Florida Institute for Sustainable Energy (FISE) Energy Technology Incubator - University of Florida - \$ 4,500,000**

The University of Florida will create an Energy Technology Incubator, as part of the FISE, to accelerate commercialization of biofuel, fuel cell, and other energy technologies to meet Florida's urgent and growing energy needs and bring high tech energy companies and jobs to the State of Florida.

**4. Florida Photonics Center of Excellence (FPCE) Laser Technology Initiative - University of Central Florida - \$ 4,500,000**

The objective of the Laser Technology Initiative within the Florida Photonics Center of Excellence (FPCE) is the development of intellectual capital in laser technology with applications in medicine, advanced manufacturing and defense and the transition of this intellectual capital to the private sector.

**5. Center for Nano-Bio Sensors University of Florida - \$ 4,000,000**

The Center for Nano-Bio Sensors, in partnership with Sandia National Laboratories, Santa Fe Community College, and key industrial partners will harness select, world-class resources in nanotechnology and biotechnology

sciences to produce life saving, high value healthcare sensors and probes to enable Florida to expand, attract and retain robust nano-bio based industries.

**6. Center of Excellence in Advanced Materials - Florida State University - \$ 4,000,000**

The Center of Excellence in Advanced Materials will develop technologies to make materials stronger, lighter, multifunctional, and affordable. CEAM will also provide training statewide to prepare a strong workforce base to attract advanced material industries to Florida.

**VI. State University System Research and Economic Development Investment Program**

This program was established in order to enhance graduate education and enable state universities to become nationally competitive in science and technology-based economic development. A total of \$45 million in matching funds to eligible institutions was provided to construct and acquire cutting-edge, state-of-the-art, science and engineering research facilities and specialized equipment to support research programs, foster economic development, and accelerate Florida's innovation economy. University eligibility was determined by certain criteria specified in the Bill, which provided \$36.5 million for Level I institutions, and \$8.5 million for Level II institutions. The legislation required universities to raise matching funds from non-university sources in order to participate in this program.

Based upon eligibility determination, Level I funding was divided between two SUS institutions, and one SUS institution received Level II funding. At its September 21, 2006 meeting, the Board of Governors approved the distribution of \$23.25 million of the level I funding to the University of Florida and \$13.25 million to Florida State University, and \$8.5 million of level II funding was approved for the University of South Florida.

## VII. Accountability Measures

### 2002 Centers of Excellence

The Emerging Technology Commission provided a plan in 2002 for the oversight and review of the success of three centers of excellence established by the Commission that focused on factors related to economic success. The Plan included general oversight review standards as well as specific review standards for each program.

During 2006, the Board of Governors requested and received an update of progress in the establishment of the three centers: the Center of Excellence in Biomedical and Marine Biotechnology at Florida Atlantic University, the Florida Photonics Center of Excellence at the University of Central Florida, and the Center of Excellence in Regenerative Health Biotechnology at the University of Florida. A compilation of the data received appears in the tables below:

### Florida Atlantic University Center of Excellence in Biomedical and Marine Biotechnology

Measures of Progress To Date as of Jan-06*	FAU COE*
COE Expenditures and Commitments	\$10,000,000
Effectiveness of the research	
Number of Publications	55
Research Grants and Awards	\$25,074,386
State of research collaborations	27
State of personnel additions	13
Integration with K – 20 education system (# students or teachers served)	2470
Number of industry internships granted to graduate and post-doctoral students	3
Number of Patents filed	21
Number of Patents issued	23
Number of technologies licensed	3
Start up Businesses	3
Out of state business relations	31
Contact with Venture Capitalists.	14

\* Derived from Quarterly reports from the beginning of the reporting process, adding quarterly figures where appropriate to arrive at a "To Date" figure

University of Central Florida Photonics Center of Excellence

<b>Measures of Progress To Date as of Jan-06*</b>	<b>UCF FPCE</b>
COE Expenditures and Commitments	\$8,619,617
Number of Publications	138
Research Grants and Awards #	\$24,922,726
State of research collaborations	29
State of personnel additions	31
Integration with K – 20 education system (# students or teachers served)	15
Number of industry internships granted to grad. and post-doctoral students	15
Number of Patents filed	40
Number of Patents issued	14
Number of technologies licensed	3
Start up Businesses	6
Out of state business relations	34
Contact with Venture Capitalists.	10

\* Derived from Quarterly Reports from the beginning of the reporting process, adding quarterly figures where appropriate to arrive at a "To Date" figure

University of Florida Center of Excellence in Regenerative Health Biotechnology

<b>Measures of Progress To Date as of Jan-05*</b>	<b>UF CERHB</b>
COE Expenditures and Commitments	\$16,060,491
Effectiveness of the research	
Number of Publications	125
Research Grants and Awards	\$3,250,000
State of research collaborations	2
State of personnel additions	44
Integration with K – 20 education system (# students or teachers served)	100
Number of industry internships granted to grad. and post-doc students	0
Number of Patents filed	0
Number of Patents issued	0
Number of technologies licensed	0
Start up Businesses	0
Out of state business relations	5
Contact with Venture Capitalists.	3

\* Derived from Quarterly reports from the beginning of the reporting process, adding quarterly figures where appropriate to arrive at a "To Date" figure

A summary of the responses of the three institutions appears below:

	<b>UCF</b>	<b>FAU</b>	<b>UF</b>
<b>Progress as of</b>	<b>Jan-06</b>	<b>Jan-06</b>	<b>Jan-06</b>
Startups	4	3	0
# of Employees	45	2	0
Venture Funding	\$10,500,000	\$0	\$0
Average Salary	\$62,930	NA	NA
Affiliated Companies	2	0	1
State Funds Awarded	\$10,000,000	\$10,000,000	\$10,000,000
Other State Funds Awarded	\$5,062,900	\$827,138	\$0
Federal Funds Awarded	\$15,970,187	\$18,789,389	\$3,250,000
Private Funds Awarded	\$8,952,539	\$3,157,859	\$10,000
Foundation Funds	\$0	\$2,300,000	\$10,000,000
License Income	\$181,250	\$5,500	\$0

### **2006 21<sup>st</sup> Century World Class Scholars and Centers of Excellence**

The 2006 legislation makes the following charge with respect to the annual report of 21<sup>st</sup> Century World Class Scholars and Centers of Excellence:

“The board, in cooperation with the Board of Governors of the State University System and the state universities or research centers receiving investments under this act, shall issue an annual report by December 31 each year of the activities conducted, including the accomplishments and overall economic benefits to the state, the number of 21<sup>st</sup> Century World Class Scholars attracted, the number of Centers of Excellence created or expanded, the success of collaborations with related industries, and the success of these programs. The annual report shall be presented to the Governor, the President of the Senate, and the Speaker of the House of Representatives. The annual report must include a copy of an independent audit of the board and a review of the progress of programs administered by the board. “

During 2007, the six Centers that were established in 2006 will be working to implement specific accountability measures in preparation for reporting out to the Board of Governors and the Legislature.

**APPENDIX A**

**21<sup>st</sup> Century Technology, Research, and  
Scholarship Enhancement Act**

FLORIDA HOUSE OF REPRESENTATIVES

**HB 1237**, Engrossed 2 2006

1 A bill to be entitled  
2 An act relating to special postsecondary education  
3 programs; creating s. 1004.226, F.S.; creating the 21st  
4 Century Technology, Research, and Scholarship Enhancement  
5 Act; providing legislative findings and intent; providing  
6 definitions; creating the Florida Technology, Research,  
7 and Scholarship Board within the Board of Governors of the  
8 State University System; providing for members of the  
9 board; providing for terms; providing for board members to  
10 be reimbursed for per diem and expenses incurred in the  
11 performance of their duties; requiring that the Board of  
12 Governors of the State University System provide staff  
13 support and other support for the board; requiring that  
14 the board provide recommendations for the 21st Century  
15 World Class Scholars Program and the Centers of Excellence  
16 Program; authorizing the board to form committees and  
17 consult with certain other entities; providing for the  
18 21st Century World Class Scholars Program to provide  
19 matching funds to state universities to pay salaries and  
20 support research in science and technology; providing  
21 guidelines for the board to consider in developing its  
22 criteria for an award of matching funds; requiring a  
23 minimum investment of private funds; specifying the  
24 purposes of the Centers of Excellence; identifying the  
25 entities that are eligible to submit proposals for a  
26 center of excellence; requiring that the board develop  
27 criteria for approving proposals to create or expand a  
28 Center of Excellence; requiring that the board solicit  
29 proposals and notify state universities and research  
30 centers of a call for proposals; requiring that a Center  
31 of Excellence approved under the act report on its  
32 achievement of objectives; requiring certain documentation  
33 if funds are approved for a Center of Excellence in excess  
34 of a specified amount; requiring that the board submit an  
35 annual report to the Governor and Legislature; creating s.  
36 1004.635, F.S.; creating the State University System  
37 Research and Economic Development Investment Program to  
38 provide matching funds to institutions to construct and  
39 acquire facilities and equipment to support research  
40 programs and foster economic development; providing for

41 administration by the Board of Governors of the State  
42 University System; specifying eligibility criteria for  
43 state university participation; providing for the matching  
44 of appropriated funds; providing appropriations; providing  
45 for future repeal of s. 1004.226, F.S.; creating s.  
46 1004.384, F.S.; authorizing a college of medicine at the  
47 University of Central Florida; creating s. 1004.385, F.S.;  
48 authorizing a college of medicine at Florida International  
49 University; providing an effective date.

50

51 Be It Enacted by the Legislature of the State of Florida:

52

53 Section 1. Section 1004.226, Florida Statutes, is created  
54 to read: 1004.226 The 21st Century Technology, Research, and  
55 Scholarship Enhancement Act.--

56 (1) LEGISLATIVE FINDINGS AND INTENT.--

57 (a) The Legislature finds that diversifying this state's  
58 economy requires a focus on building a growing base of high-wage  
59 jobs and on nurturing those technologies and clusters that will  
60 be the foundation of Florida's growing economic diversity and  
61 prosperity.

62 (b) The Legislature further finds that special programs  
63 are needed to facilitate the recruitment of exceptional talent  
64 to Florida's research universities and centers and to provide  
65 the infrastructure and resources that precipitate joint efforts  
66 and coinvestment among state research and development  
67 institutions, private industry, and government. Florida needs  
68 consistent commitment and investment in order to further the  
69 state's strategy of capitalizing on innovative research and  
70 development to build a thriving, technology-rich economy.

71 (2) CREATION.--The 21st Century Technology, Research, and  
72 Scholarship Enhancement Act is created for the purpose of:

73 (a) Investing in programs that attract world class  
74 scholars and building Centers of Excellence as an important  
75 means of increasing technology-based business in this state;

76 (b) Requiring coinvestment as a means of leveraging state  
77 dollars;

78 (c) Aligning research and development efforts with  
79 established, statewide economic-development strategies,  
80 including an emphasis on identified economic clusters;

81 (d) Facilitating value-added job creation through  
82 continuous improvement in university research, as well as  
83 entrepreneurship and capital-development programs; and

84 (e) Establishing Florida as a leading state for  
85 entrepreneurship and innovation, with continued commitment to  
86



87 university Centers of Excellence and an expanding base of  
88 research and development.

89 (3) DEFINITIONS.--As used in this section, the term:

90 (a) "A 21st Century World Class Scholar" means a principal  
91 researcher/investigator who has high academic credentials,  
92 demonstrated competence, and experience that meets the  
93 requirements established by the board for a 21st Century World  
94 Class Scholar.

95 (b) "Applicant" means any state university, private  
96 university located in this state, or any private or public  
97 research center, community college, or training center in this  
98 state which coordinates with a state university for purposes of  
99 this act.

100 (c) "Board" means the Florida Technology, Research, and  
101 Scholarship Board.

102 (d) "Center of Excellence" means an organization of  
103 personnel, facilities, and equipment established to accomplish  
104 the purposes and objectives of this act.

105 (e) "Community college" means a public community college  
106 in this state as defined in s. 1000.21.

107 (f) "Private university" means a baccalaureate degree  
108 granting independent nonprofit university that is accredited by  
109 the Commission on Colleges of the Southern Association of  
110 Colleges and Schools and that is located in and chartered as a  
111 domestic corporation by the state.

112 (g) "Research center" means an institute, center, or  
113 clinic that includes research and development or education as a  
114 principal mission of the organization.

115 (h) "State university" means a public university in this  
116 state as defined in s. 1000.21.

117 (4) FLORIDA TECHNOLOGY, RESEARCH, AND SCHOLARSHIP  
BOARD.--

118 The Florida Technology, Research, and Scholarship Board is  
119 created within the Board of Governors of the State University  
120 System to guide the establishment of Centers of Excellence and  
121 the attraction of world class scholars.

122 (a) The board shall consist of 11 members. Five members  
123 shall be appointed by the Governor, one of whom the Governor  
124 shall appoint as chair of the board, one of whom must be a  
125 member of the board of directors of Enterprise Florida, Inc.,  
126 and one of whom must be a member of the Board of Governors of  
127 the State University System. Three members shall be appointed by  
128 the President of the Senate and three members shall be appointed  
129 by the Speaker of the House of Representatives. Appointed

130 members must be representative of business leaders, industrial  
131 researchers, academic researchers, scientists, and leaders in  
132 the emerging and advanced technology sector. Appointed members  
133 may not serve for more than 4 years and any vacancy that occurs  
134 during these appointees' terms shall be filled in the same  
135 manner as the original appointment. A majority of members  
136 constitutes a quorum.

137 (b) Members of the board shall serve without compensation,  
138 but are entitled to receive reimbursement for per diem and  
139 travel expenses in accordance with s. 112.061 while in the  
140 performance of their duties.

141 (c) The Board of Governors shall provide staff support for  
142 the activities of the board and per diem and travel expenses for  
143 board members.

144 (d) The board is charged with recommending criteria to the  
145 Board of Governors for the 21st Century World Class Scholars  
146 Program and with providing guidance to the Board of Governors  
147 regarding the implementation and administration of the Centers  
148 of Excellence Program. The board shall recommend to the Board of  
149 Governors the qualifications, standards, and requirements for  
150 approval of investments in Centers of Excellence under this act.  
151 The board may form committees of its members and is encouraged  
152 to consult with Enterprise Florida, Inc., the Florida Research  
153 Consortium, Bio-Florida, IT Florida, the Florida Aviation  
154 Aerospace Alliance, and any other entity whose input may be  
155 helpful in determining the requirements and standards for the  
156 program.

157 (5) THE 21ST CENTURY WORLD CLASS SCHOLARS PROGRAM.--

158 (a) This act allocates state matching funds to attract  
159 21st Century World Class Scholars to state universities.

160 (b) The 21st Century World Class Scholars Program shall be  
161 used as a tool to develop the state's capabilities in science  
162 and high-technology research, emphasizing Florida's identified  
163 strengths in science and technology while also recognizing new  
164 technologies as they may emerge.

165 (c) The board, in consultation with senior administrators  
166 of state universities, state university foundation directors,  
167 the Office of Tourism, Trade, and Economic Development, the  
168 board of directors of Enterprise Florida, Inc., and leading  
169 members of private industry, shall develop and recommend to the  
170 Board of Governors criteria for the 21st Century World Class  
171 Scholars Program. Such criteria shall address, at a minimum, the  
172 following:

173 1. The presence of distinguished faculty members,

174 including whether the university has a substantial history of  
175 external funding, along with the strong potential for attracting  
176 a scholar of national or international eminence.

177 2. The presence of academically outstanding students,  
178 along with the promise and potential for attracting additional  
179 highly qualified students.

180 3. The presence of adequate research and scholarly support  
181 services.

182 4. The existence of an academic environment having  
183 appropriate infrastructure, including buildings, classrooms,  
184 libraries, laboratories, and specialized equipment, that is  
185 conducive to the conduct of the highest quality of scholarship  
186 and research.

187 5. The demonstration of concordance with Florida's  
188 strategic plan for economic development or an emphasis on one or  
189 more emerging sciences or technologies that could favorably  
190 impact the state's economic future.

191 (d) A state university must raise a minimum of \$1 million  
192 to be eligible for state matching funds to recruit a 21st  
193 Century World Class Scholar. Funds raised by the university  
194 shall be eligible for a one-to-one match from the state.  
195 Revenues received from state appropriations, student tuition and  
196 fees, and state-funded contracts or grants are not eligible for  
197 state match.

198 (e) Upon the verification by the Board of Governors that a  
199 state university has met the criteria for a 21st Century World  
200 Class Scholar, the Board of Governors shall release matching  
201 funds to the university. Funds shall be used for the purpose of  
202 recruiting a 21st Century World Class Scholar and shall be  
203 expended according to an expenditure plan approved by the Board  
204 of Governors.

205 (f) This act is not intended to replace or obviate  
206 existing programs.

207 (6) CENTERS OF EXCELLENCE.--

208 (a) The purposes and objectives of a Center of Excellence  
209 include:

210 1. Identifying and pursuing opportunities for university  
211 scholars, research center scientists and engineers, and private  
212 businesses to form collaborative partnerships to foster and  
213 promote the research required to develop commercially promising,  
214 advanced, and innovative science and technology and to transfer  
215 those discoveries to commercial sectors.

216 2. Acquiring and leveraging public-sector and private217  
sector funding to provide the totality of funds, personnel,

218 facilities, equipment, and other resources needed to support the  
219 research required to develop commercially promising, advanced,  
220 and innovative science and technology and to transfer those  
221 discoveries to commercial sectors.

222 3. Recruiting and retaining world class scholars, high223  
performing students, and leading scientists and engineers in  
224 technology disciplines to engage in research in this state and  
225 to develop commercially promising, advanced, and innovative  
226 science and technology.

227 4. Enhancing and expanding science and technology  
228 curricula and laboratory resources at universities and research  
229 centers in this state.

230 5. Increasing the number of high-performing students in  
231 science and technology disciplines who graduate from  
232 universities in this state and pursue careers in this state.

233 6. Stimulating and supporting the inception, growth, and  
234 diversification of science and technology-based businesses and  
235 ventures in Florida and increasing employment opportunities for  
236 the workforce needed to support such businesses.

237 (b) The following entities are eligible to submit  
238 proposals for a center of excellence:

239 1. Any state university.  
240 2. Any private university.  
241 3. The H. Lee Moffitt Cancer Center and Research  
242 Institute.  
243 4. The Florida Institute for Human and Machine Cognition,  
244 Inc.  
245 5. Any community college, training center, or other public  
246 or private research center in the state which coordinates with a  
247 state university for purposes of this act.

248 (c) The board shall recommend to the Board of Governors  
249 criteria for approving proposals to create or expand a Center of  
250 Excellence. Such criteria shall consider:

251 1. The maturity of the applicant's existing programs  
252 relating to a proposed Center of Excellence.  
253 2. The comprehensiveness and effectiveness of site plans  
254 relating to a proposed Center of Excellence.  
255 3. The existing amount of the applicant's resources  
256 dedicated to activities relating to a proposed Center of  
257 Excellence.  
258 4. The regional economic structure and climate.  
259 5. The degree to which the applicant identifies and seizes  
260 opportunities to collaborate with other public or private  
261 entities for research purposes.

262 6. The presence of a comprehensive performance and  
263 accountability measurement system.

264 7. The use of an integrated research and development  
265 strategy using multiple levels of the educational system.

266 8. The ability of the applicant to raise research funds  
267 and leverage public and private investment dollars to support  
268 advanced and emerging scientific and technological research and  
269 development projects.

270 9. The degree to which the applicant transfers advanced  
271 and emerging sciences and technologies from its laboratories to  
272 the commercial sector.

273 10. The degree to which the applicant stimulates and  
274 supports the creation of new ventures.

275 11. The existence of a plan to enhance academic curricula  
276 by improving communication between academia and industry.

277 12. The existence of a plan to increase the number,  
278 quality, and retention rate of faculty and graduate students in  
279 advancing and emerging science and technology-based disciplines.

280 13. The existence of a plan to increase the likelihood of  
281 faculty and graduate students pursuing private-sector careers in  
282 the state.

283 14. The ability of the applicant to provide capital  
284 facilities necessary to support research and development.

285 (d) To call for proposals, the board shall notify the  
286 president or chief executive officer of the eligible entities  
287 identified in paragraph (b). The board shall periodically  
288 solicit proposals for Centers of Excellence.

289 (e) The board shall recommend to the Board of Governors  
290 for approval and funding those proposals that meet the criteria  
291 approved by the Board of Governors.

292 (f) If no proposal is judged worthy of approval during a  
293 solicitation cycle, an approval need not be made. This act does  
294 not establish a limit for an investment amount; however, any  
295 approval for a single Center of Excellence exceeding \$20 million  
296 must be documented to have superior prospects for success in its

297 field of research and offer outstanding opportunities to  
298 leverage state dollars.

299 (7) ANNUAL REPORT.--The board, in cooperation with the  
300 Board of Governors of the State University System and the state  
301 universities or research centers receiving investments under  
302 this act, shall issue an annual report by December 31 each year  
303 of the activities conducted, including the accomplishments and  
304 overall economic benefits to the state, the number of 21st

305 Century World Class Scholars attracted, the number of Centers of  
306 Excellence created or expanded, the success of collaborations  
307 with related industries, and the success of these programs. The  
308 annual report shall be presented to the Governor, the President  
309 of the Senate, and the Speaker of the House of Representatives.  
310 The annual report must include a copy of an independent audit of  
311 the board and a review of the progress of programs administered  
312 by the board.

313 Section 2. For the 2006-2007 fiscal year, the sum of \$8  
314 million is appropriated from general revenue funds to the  
315 University of South Florida for the purpose of enhancing  
316 graduate programs.

317 Section 3. Section 1004.635, Florida Statutes, is created  
318 to read:

319 1004.635 State University System Research and Economic  
320 Development Investment Program.--

321 (1) LEGISLATIVE INTENT.--It is the intent of the  
322 Legislature to create an investment program in state  
323 universities that enhances graduate education and enables state  
324 universities to become nationally competitive in science and  
325 technology-based economic development.

326 (2) GENERAL PROVISIONS.--There is created the State  
327 University System Research and Economic Development Investment  
328 Program to provide matching funds to eligible institutions to  
329 construct and acquire cutting-edge, state-of-the-art science and  
330 engineering research facilities and specialized equipment to  
331 support research programs, foster economic development, and  
332 accelerate Florida's innovation economy. The program shall be  
333 administered by the Board of Governors of the State University  
334 System.

335 (3) INSTITUTIONAL ELIGIBILITY CRITERIA.--

336 (a) To be eligible to participate in the State University  
337 System Research and Economic Development Investment Program at  
338 Funding Level 1, a state university must meet each of the  
339 following criteria:

340 1. The number of nonprofessional doctoral degrees awarded  
341 each year must exceed 250. For purposes of this section,  
342 nonprofessional doctoral degrees do not include degrees awarded  
343 in law, medicine, dentistry, and veterinary medicine. At least  
344 25 percent of the nonprofessional doctoral degrees must be in a  
345 mathematics, science, technology, engineering, or health-related  
346 discipline as defined by Classification of Instructional Program  
347 codes.

348 2. The number of postdoctoral appointees reported in the

349 most recent NSF/NIH Survey of Graduate Students and  
350 Postdoctorates in Science and Engineering must exceed 200.  
351 3. The 4-year undergraduate graduation rate must equal 40  
352 percent or higher.  
353 4. Expenditures from externally awarded contracts and  
354 grants must be a minimum of \$100 million per year.  
355 5. The university must have a proven track record of  
356 securing patents and licenses leading to products in the  
357 marketplace over the last 5 years.  
358 6. At least 75 percent of the entering freshmen each  
359 academic year who are classified as residents for tuition  
360 purposes pursuant to s. 1009.21 must be eligible to receive  
361 Florida Bright Futures Scholarships.  
362 7. The Basic Classification of the university, according  
363 to the 2005 Carnegie Classifications, must be as a research  
364 university with very high research activity.  
365 (b) To be eligible to participate in the State University  
366 System Research and Economic Development Investment Program at  
367 Funding Level 2, a state university must meet, at a minimum, the  
368 requirements of subparagraphs (a)4. and 7.

369  
370 The Board of Governors shall develop uniform guidelines,  
371 definitions, and reporting formats for a university to use to  
372 demonstrate that it meets each of the criteria described in this  
373 subsection. The Board of Governors shall determine the  
374 eligibility status of a state university to participate in the  
375 program provided that a state university may not participate in  
376 both Funding Level 1 and Funding Level 2 simultaneously.

377 (4) USE OF FUNDS.--Funds appropriated for the State  
378 University System Research and Economic Development Investment  
379 Program shall be used by the Board of Governors to match funds  
380 raised by an eligible university from nonuniversity sources on a  
381 one-time dollar-for-dollar basis.

382 Section 4. For the 2006-2007 fiscal year, the sum of  
383 \$95,000,000 is appropriated from nonrecurring general revenue  
384 funds to the Board of Governors of the State University System  
385 of which \$20 million shall be allocated for the 21st Century  
386 World Class Scholars Program, \$30 million shall be allocated for  
387 the Centers of Excellence Program, \$36.5 million shall be  
388 allocated for Funding Level 1 of State University System  
389 Research and Economic Development Investment Program, and \$8.5  
390 million shall be allocated for Funding Level 2 of the State  
391 University System Research and Economic Development Investment  
392 Program.

393 Section 5. For the 2006-2007 fiscal year, the sum of \$5  
394 million is appropriated from nonrecurring general revenue to the  
395 State Board of Education for the Dr. Philip Benjamin Matching  
396 Grant Program for Community Colleges to match donations for  
397 scholarships for first-generation-in-college students.  
398 Section 6. Section 1004.226, Florida Statutes, shall  
399 expire on June 30, 2011.  
400 Section 7. Section 1004.384, Florida Statutes, is created  
401 to read:  
402 1004.384 University of Central Florida College of  
403 Medicine.--A college of medicine, as approved by the Board of  
404 Governors on March 23, 2006, is authorized at the University of  
405 Central Florida.  
406 Section 8. Section 1004.385, Florida Statutes, is created  
407 to read:  
408 1004.385 Florida International University College of  
409 Medicine.--A college of medicine, as approved by the Board of  
410 Governors on March 23, 2006, is authorized at Florida  
411 International University.  
412 Section 9. This act shall take effect July 1, 2006.



**APPENDIX B**

**Florida Technology, Research, and Scholarship Board Members**

**FLORIDA TECHNOLOGY, RESEARCH, AND SCHOLARSHIP**  
**BOARD**

**Mr. David Griffin, Chair**

President, David Griffin Consulting, Tallahassee

**Mr. Joseph Lacher, Acting Chair**

Chairman, Great Florida Bank, Miami

**Mr. Charles Davidson**

Chair, IT Florida, Orlando

**Ms. Ann Duncan**

Principal, Vertical Integration, Inc., Tampa

**Dr. Lewis Duncan, III**

President, Rollins College, Winter Park

**Mr. George Gordon**

CEO/Chairman, Enporion, Inc., Tampa

**Mr. Chris Hart, IV**

Senior Vice President, Enterprise Florida, Inc., Orlando

**Mrs. Betti Lidsky**

Founder, Hope for Vision's Heart Sight Miami

**Mr. Stephen Mason**

President and CEO, BayCare Health System, Clearwater

**Mr. Brian McDonald**

Consultant, BRM Group, Oldsmar

**Dr. Donald C. Sullivan**

ASAP Capital Partners, Tampa

**APPENDIX C**

**The 21<sup>st</sup> Century World Class Scholars Program:  
Criteria for Evaluation of the 2006 Proposals**

# THE 21<sup>ST</sup> CENTURY WORLD CLASS SCHOLARS PROGRAM

## Criteria for Evaluation of 2006 Proposals

The 21 Century Technology, Research, and Scholarship Enhancement Act includes the 21<sup>st</sup> Century World Class Scholars Program which provides matching funds to state universities in order to attract nationally-recognized faculty in the areas of the sciences, engineering, and technology and mathematics (STEM). The following criteria were used in the review of institution proposals.

1. Provide evidence that the institution's mission is concordant with the State University System Strategic Plan and the State's Strategic Plan for economic development, and that the institution places an emphasis on one or more emerging technologies or academic disciplines that could favorably impact the state's economic future as envisioned by the 21<sup>st</sup> Century Technology, Research, and Scholarship Enhancement Act.
2. Provide evidence that your institution currently has a distinguished faculty with national visibility and reputation and a substantial history of receiving external funding in the form of contracts and grants in academic disciplines directly associated with or applicable to the contemplated 21<sup>st</sup> Century World Class Scholar hire.
3. Provide evidence that your institution has outstanding students in the academic disciplines associated with the 21<sup>st</sup> Century World Class Scholar hire. This may include national rankings of academic disciplines, noteworthy alumni; student and graduate awards, honors, and other forms of recognition; and numbers of undergraduates accepted into nationally recognized graduate or professional programs.
4. Provide evidence of the presence of adequate research and scholarly support services as an institution as a whole and in academic disciplines associated with or applicable to the contemplated 21<sup>st</sup> Century World Class Scholar hire. This includes evidence of a long-standing Office of Research with an established record of securing, maintaining, and complying with federal grants in STEM disciplines; and institutional support of faculty in STEM disciplines appropriate to the creation of nationally recognized programs.
5. Provide evidence of the presence of an academic environment with appropriate infrastructure, buildings, classrooms, libraries, laboratories, and specialized equipment conducive to conducting the highest quality of scholarship and research faculty in academic disciplines directly associated with or applicable to the contemplated 21<sup>st</sup> Century World Class Scholar hire.

**APPENDIX D**

**Master List of World Class Scholars Proposals**

**MASTER LIST OF WORLD CLASS SCHOLARS PROPOSALS**

<b>Proposal ID Number</b>	<b>University</b>	<b>Scholar Name (Field of Study)</b>
1	FAU	<b>Dr. Charles H. Hennekens</b> (Biomedical Sciences)
2	UCF	<b>Dr. Frede Blaabjerg</b> (Electrical Engineering; Renewable Energy and Power Electronics)
3	UCF	<b>Dr. Marwan Simaan</b> (Electrical Engineering; Signal Processing and Control)
4	UCF	TBA (Optics and Photonics; Laser Medicine)
5	UCF	TBA (Fuel Cell)
6	FIU	<b>Dr. Ashok Mulchandani</b> (Bionanotechnology for Biomedical and Environmental Health Applications)
7	FIU	<b>Dr. Peter Eklund</b> (Nanotechnology: Carbon Nanotube and Nanowire Materials Processing and Sensor Development)
8	UF	<b>Dr. Sivaramakrishnam "Bala" Balachandar</b> (Mechanical and Aerospace Engineering)
9	UF	<b>Dr. Linda Bartoshuk</b> (Behavioral Neuroscience)
10	UF	<b>Dr. Kirk Conrad</b> (Functional Genomics)
11	UF	<b>Dr. Martin Glicksman</b> (Materials Science and Engineering)
12	UF	<b>Dr. Grant McFadden</b> (Molecular Genetics; Microbiology)
13	UF	<b>Dr. Scott Perry</b> (Materials Science and Engineering)
14	UF	<b>Dr. Johannes Vieweg</b> (Genetic and Cellular Immunology)
15	FSU	<b>Dr. Eric Hellstrom</b> (Mechanical Engineering; Applied Superconductivity)
16	FSU	<b>Dr. David Larbalestier</b> (Mechanical Engineering/ Applied Superconductivity)

17	FSU	<b>Dr. Barbara Foorman</b> (Florida Center for Reading Research; Learning Systems Institute; College of Education, Childhood Education, Reading, and Disability Services; Psychology, Neuroscience, and Learning Pathology)
18	FSU	<b>Dr. David Gilbert</b> (Biological Sciences; Molecular Biology and Genetics)
19	FSU	<b>Dr. Alan Spector</b> (Neuroscience)
20	USF	TBA (Biomolecular Science; Drug Discovery)
21	USF	<b>Dr. Jeffrey Robert Gruen</b> (Developmental Pediatrics; Learning Disabilities)
22	USF	<b>Dr. Thomas Unnasch</b> (Infectious Disease and Biodefense)
23	USF	<b>Dr. Jeffrey S. Weber</b> (Interdisciplinary Oncology; Melanoma)
24	USF	TBA (Molecular Medicine)
25	USF	TBA (Oceanography and Climate Change)
26	USF	TBA (Pattern Recognition for Enhanced Security, Health, and Quality of Life)

**APPENDIX E**

**Centers of Excellence:  
Criteria for Evaluation of the 2006 Proposals**



# CENTERS OF EXCELLENCE

## Criteria for Evaluation of 2006 Proposals

The 21<sup>st</sup> Century Technology, Research, and Scholarship Enhancement Act, provides for the establishment of university-based Centers of Excellence to give Florida a clear position of leadership in key emerging technology areas with the unique potential for significant economic and societal impact.

The following sets forth (A) the general success measures of a Center of Excellence and (B) specific factors identified as relevant to evaluating a proposed Center of Excellence.

**A. General Success Factors:** General success factors should include:

1. An integrated vision to develop commercially promising, advanced, and innovative technologies and a process to facilitate transfer of these technologies to the commercial sector as appropriate;
2. A national and prominent technology-centric research focus;
3. The potential for positive economic impact on Florida;
4. A leadership and management plan to assure success;
5. The ability to acquire and leverage public and private-sector funding to provide the totality of funds, personnel, facilities, equipment, and other resources needed to support the research required to develop commercially promising, advanced, and innovative technologies and to transfer those technologies to commercial sectors;
6. The promotion of collaborative partnerships among university scholars, research center scientists and engineers, and private businesses to foster the research required to develop commercially promising, advanced, and innovative technologies and to transfer those technologies to commercial sectors; and
7. The opportunities to develop a high-skilled, high-wage workforce.

**B. Specific Success Factors:** The proposal must include and describe whether and how the following specific success factors identified as relevant to evaluating a proposed Center of Excellence are addressed. Following the proposal's Executive Summary, the proposal must contain a one-page crosswalk that identifies the specific page number(s) in which the 14 specific success factors are addressed.

1. Maturity of existing programs relating to a proposed center of excellence.
2. Existing amount of resources dedicated to activities relating to a proposed Center of Excellence.
3. Comprehensiveness and effectiveness of site plans relating to a proposed Center of Excellence.

4. Regional economic structure and climate.
5. The degree to which an applicant proposed to house a Center of Excellence identifies and seizes opportunities to collaborate with other public or private entities for research purposes.
6. The presence of a comprehensive performance and accountability measurement system.
7. The use of an integrated research and development strategy utilizing multiple levels of the educational system.
8. The ability of an applicant proposed to house a Center of Excellence to raise research funds and leverage public and private investment dollars to support advanced and emerging technological research and development projects.
9. The degree to which an applicant proposed to house a Center of Excellence transfers advanced and emerging technologies from its laboratories to the commercial sector.
10. The degree to which an applicant proposed to house a Center of Excellence stimulates and supports new venture creation.
11. The existence of a plan to enhance academic curricula by improving communication between academia and industry.
12. The existence of a plan to increase the number, quality, and retention rate of faculty, graduate students, and eminent scholars in advanced and emerging technology-based disciplines.
13. The existence of a plan to increase the likelihood of faculty, graduate students, and eminent scholars pursuing private-sector careers in the state.
14. Ability to provide capital facilities necessary to support research and development.

## **Weighting of Evaluation Criteria**

Proposals for Centers of Excellence will be evaluated using the following criteria, which are in descending order of importance:

<b>Criteria</b>	<b>Weight</b>
1. <i>Vision.</i> The proposal must demonstrate a clear and integrated vision to develop commercially promising, advanced, and innovative technologies and to transfer those technologies to the commercial sector.	20%
2. <i>Research Focus.</i> The proposal must demonstrate a national and prominent technology-centric research focus.	20%
3. <i>Economic Impact.</i> The proposal must demonstrate the potential for positive economic impact on the State of Florida and the nation.	15%
4. <i>Collaboration.</i> The proposal must promote opportunities for identifying and pursuing opportunities for university scholars, research center scientists and engineers, other educational institutions, as appropriate and private businesses to form collaborative partnerships to foster and promote the research required to develop commercially promising, advanced, and innovative technologies and to transfer those technologies to commercial sectors.	15%
5. <i>Leadership &amp; Management.</i> The proposal must outline a leadership and management plan to assure success if the center is funded.	10%
6. <i>Leveraging Resources.</i> The proposal must demonstrate the ability to acquire and leverage public and private-sector funding to provide the totality of funds, personnel, facilities, equipment, and other resources needed to support the research required to develop commercially promising, advanced, and innovative technologies and to transfer those technologies to commercial sectors.	10%
7. <i>Workforce.</i> The proposal must describe how the Center of Excellence would foster the development of a high-skilled, high-wage workforce.	10%

**APPENDIX F**

**Master List of Centers of Excellence Proposals**

**MASTER LIST OF CENTERS OF EXCELLENCE PROPOSALS**

<b>Proposal ID Number</b>	<b>Offering Institution(s)</b>	<b>Center Name</b>
1	FAU	Center of Excellence on Longevity
2	FAU	Center of Excellence in Ocean Energy Technology
3	UCF	Center for the Enhancement of Human Performance Through Modeling and Simulation
4	UCF	Florida Photonics Center of Excellence (FPCE) Laser Technology Initiative (LTI)
5	UCF	Florida Imaging Science Center (FISC)
6	FAU	Center of Excellence in Imaging Technology
7	UCF, UF	Center of Excellence for Research and Technology for Space (CERTS)
8	UCF, FSEC	Center of Excellence for Florida's Energy Future: Developing Photovoltaics, Hydrogen and Fuel Cell Technologies
9	UM	LifeTech Florida Center of Excellence in Advanced Technologies for Geriatric Health
10	FIU	Florida Center of Excellence in Hurricane Damage Mitigation
11	FIU, UCF, FGCU	Florida Center of Excellence for Biomedical Nanotechnology
12	UWF	Center of Excellence in Environmental Microbiology and Biotechnology
13	UM	Florida Center of Excellence in Visual Health Technologies
14	Moffitt	Center for Nanotechnology Sensors and Systems for the Early Detection of Cancer
15	UF	Florida Institute for Sustainable Energy (FISE) Energy Technology Incubator
16	UF	Center of Excellence for Pathogen Protections (COEPP)
17	IHMC	Center of Excellence in Human Performance Enhancement and Restoration

18	UF	Center of Excellence in Radiation Effects
19	UF	Center for Nano-Bio Sensors
20	UF	Center of Excellence in Smart Technology & Advanced Research for Personal Health and Independent Living (STARPHIL)
21	FAMU	Center for Computational Science and Technology (CCST)
22	FAMU	Center for Technologies from Microphysics
23	FSU	Florida Applied Superconductivity Center of Excellence (FASCOE)
24	FSU	Center of Excellence in Advanced Materials (CEAM)
25	FSU	Power and Energy Center of Excellence
26	FSU	Florida's Bio-Nanotechnology Nexus (NanoNext)
27	USF	Florida Center for Excellence in Pattern Recognition
28	USF	Florida Center for Excellence for Biomolecular Identification & Targeted Therapeutics
29	FAMU	Transportation Safety and Infrastructure Management Center
30	FAMU	Center of Excellence for Drug Discovery and Development in Areas of Health Disparity (COE/D <sup>3</sup> HD)
31	UCF	Florida Center of Excellence in Chloroplast Genetic Engineering
32	Moffitt	Center of Excellence in Drug Discovery & Development (CED <sup>3</sup> )