

DRAFT +++++ 21st Century Scholar Recommendations +++++ DRAFT

University	World Class Scholar Candidate	Academic Field	Request	Recommendation	Comment
UF	Dr. Linda Bartoshuk	Behavioral Neuroscience	\$3,495,000	\$3M	<b>National Academy of Science, American Academy of Arts and Sciences;</b> will strengthen UF Brain Institute's Center for Taste and Smell; area of research is fundamental to the international flavor and fragrance industry; +35 years of funding support, and \$2M current funding from National Institute on Deafness and Other Communication Disorders; +100 peer-reviewed articles.
UF	Dr. Martin Glicksman	Materials Science and Engineering	\$1,000,472	\$1M	<b>National Academy of Engineering</b> for contributions to the science and engineering of solidification and crystal growth processes; <b>Alexander von Humboldt Award;</b> Stanley P. Rockwell medal; Kent van Horn Award; NASA's Award for Technical Excellence; National Space Processing Award; ASM International Gold Medal; state, federal, and private funding support for over thirty years; +250 papers and monographs
UF	Dr. Grant McFadden	Molecular Genetics / Microbiology	\$4,225,137	\$1M	<b>Fellow of the Royal Society of Canada;</b> Hellmuth Prize, Howard Hughes Medical Institute Scholar; will strengthen UF Cancer Center and Brain Institute; current year external funding \$900K; +210 peer reviewed papers; 19 patents, and consults for 5 biotech companies
UF	Dr. Scott Perry	Materials Science and Engineering	\$1,000,000	\$1M	Pioneer in the use of atomic force microscopy; +\$5M in total research funding (NSF, Air Force, DOD, foundations, and private companies), averaging \$600K for the last 6 years; averages 10 publications and 1 PhD per year.

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UF	Dr. Johannes Vieweg	Genetic and Cellular Immunology	\$4,209,887	\$1M	Leader in the development of vaccines against tumors and clinical testing of new treatments for cancers, including prostate cancer; and developing new therapeutics to help patients who can't be cured by surgery or radiation therapy alone; will focus on industry ties with biotechnology companies and others to foster drug development and technological advances; \$12.8M industrial, foundation, VA, DOD, NIH support the past 6 years, with \$8M active and \$2M pending; 17 post-docs the past 8 years; advisor to +7 corporations.
UF	Dr. Kirk Conrad	Functional Genomics	\$1,072,421	1st alternate	Mallinckrodt Scholar Award; NIH Research Career Development Award; +25 years external funding, averaging +500K for last 12 years; patents from his work on alleviating symptoms of cardiovascular
UF	Dr. Sivaramakrishnam Balachandar	Mechanical and Aerospace Engineering	\$1,636,642	\$0	The candidate was <b>permanently on-board at the nominating institution prior to Fall, 2006</b> . The BOG Research and Economic Development Committee should determine whether candidates who were permanently on-board prior to Fall, 2006 should be considered for the 2006 21st Century Scholars Program.
FSU	Dr. David Larbalestier	Mechanical Engineering / Applied Superconductivity	\$4,251,592	\$3M	<b>National Academy of Engineering</b> , American Physical Society, Institute of Electrical Electronics Engineers' Prize, Council for Chemical Research Prize; +250 refereed articles; 4 patents; substantial external funding from NSF, Dept. of Energy, Air Force, and industrial funding; graduated 27 PhDs.
FSU	Dr. Eric Hellstrom	Mechanical Engineering / Applied Superconductivity	\$2,105,039	\$1M	Applied Superconductivity Center Group Leader; Benjamin Smith Reynolds Teaching Award at Univ Wisconsin; +120 articles; 2 patents; 8 PhDs since 1987 and 6 postdocs.
FSU	Dr. David Gilbert	Biological Sciences / Molecular Biology and Genetics	\$1,257,678	2nd alternate	Multiple-year funding from NSF, NIH, American Cancer Society and others, with \$4M over past 5 years.

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FSU	Dr. Barbara Foorman	Language / Reading Research	\$1,920,426	5th alternate	Large-scale funding from National Institute of Child Health and Human Development; arguments for inclusion as a STEM discipline and prospects for economic development are less strong than other candidates.
FSU	Dr. Alan Spector	Neuroscience	\$3,617,275	\$0	<b>Hired from UF:</b> the BOG Research and Economic Development Committee should determine whether candidates who came or who would come to SUS institutions from other SUS institutions or from ICUF institutions should be considered for the 2006 21st Century Scholars Program.
USF	Dr. Jeffrey Robert Gruen	Developmental Pediatrics / Learning Disabilities	\$2,390,428	\$1M	Intent is to create a research focus at USF to understand learning disabilities at the molecular and the developmental level; candidate is a member of the Society for Pediatric Research; Board-certified in pediatrics and neonatal perinatal medicine; current Director of Pharmacogenetics Core Lab and Yale Child Health Research Center; PI on NIH grant @ +\$500K; +43 publications; paper cited by <i>Science</i> as a "Top-5 breakthrough of 2005"; serves on several national committees on pediatrics.
USF	Dr. Thomas Unnasch	Infectious Disease and Biodefense	\$1,907,443	\$1M	Intent is to create a USF Global Health focus; Candidate has \$6M in active research funds, with \$4.6M from NIH and \$1.2M in NIH pending; in 2nd 5-year cycle of NIAID funding; affiliation with Carter (world health) Center; 95 peer reviewed articles, mss reviewer for 23 publications; NIH Minority International Research Training Program Mentor; supervised 12 pre/post-doctoral fellows.

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USF	One Candidate Identified	Oceanography and Climate Change	\$2,000,000	\$1M	Institutional area of international reputation and substantial investment; candidate is Endowed Professor and Director of a world-renowned research program and lab; El Nino expertise including supercomputer modeling;a <b>member, National Academy of Sciences</b> impressive publication and research funding record; strong ties to the developing Third World; includes acquisition / support of full Oceanography and Climate Change team.
USF	One Candidate Identified	Pattern Recognition for Enhanced Security, Health, and Quality of Life	\$2,000,000	\$1M	Pattern recognition is a research area in which USF has made substantial investments already; candidate has a distinguished world reputation for research discovery at a premier research university; the discipline has potential for economic development in the fight against terrorism.
USF	Four Candidates Identified	Molecular Medicine	\$2,916,189	3rd alternate	<b>One candidate is at UF, and one is at U. Miami:</b> the BOG Research and Economic Development Committee should determine whether candidates who came or who would come to SUS institutions from other SUS institutions or from ICUF institutions should be considered for the 2006 21st Century Scholars Program.
USF	Dr. Jeffrey S. Weber	Interdisciplinary Oncology / Melanoma	\$2,096,219	\$0	<b>Candidate withdrawn 10/27/06</b>
USF	One Candidate Identified	Biomolecular Science / Drug Discovery	\$2,000,000	\$0	The descriptive information for this nomination was identical to that of another USF nomination in a different field.
UCF	Dr. Frede Blaabjerg	Electrical Engineering / Renewable Energy and Power Electronics	\$1,000,000	\$1M	Candidate has developed international reputation in just over a decade; <b>Danish Academy of Technical Science</b> , IEEE Fellow; former Chair, Danish Technical Research Council, and Danish Small Satellite Program; member, Board of the Danish Research Councils; IEEE Power Electronics Society Outstanding Young Power Electronics Engineer Award; 6 IEEE Prize paper awards in last 6 years; Statoil-Prize, and Grundfos Prize acknowledging international scientific research.; author/co-author of +500 highly cited publications.

UCF	Dr. Marwan Simaan	Electrical Engineering / Signal Processing and Control	\$1,000,000	\$1M	<b>National Academy of Engineering, Fellow of the Institute of Electrical and Electronics Engineers, Fellow for the American Society of Engineering Education</b> , Fellow of the American Association for the Advancement of Science; Distinguished Alumnus Award (Univ. Illinois), Beitle-Veltri Memorial Award, Outstanding EE Professor (Univ. Pitt 4 times); technical experience with 5 major companies; 100% increase as head of alumni fundraising (Pitt); cited by authors +460 times; Fall 2007 hiring timeline.
UCF	TBA	Optics and Photonics / Laser Medicine	\$2,000,000	\$1M	UCF has established a <b>world-class reputation</b> in this area; candidate expected to be a <b>member of one of two national academies</b> with all that implies; expectations for economic development
UCF	Six Candidates Identified	Fuel Cell	\$1,200,000	4th alternate	Candidate is expected to have +\$500K external funding, experience with post-docs, recognized as a <b>fellow of a major society</b> , with at least 120 papers.
FIU	Dr. Ashok Mulchandani	Bionanotechnology for Biomedical and Environmental Health Applications	\$1,000,000	\$1M	<b>Fellow of the American Association for the Advancement of Science</b> ; 134 journal publications, and major editorship; +\$11M in external funding from NSF, EPA USDA and Dept of Homeland Security; supervised 20 graduate students and 29 post-docs; 20 year-old research agenda, 7 formal disclosures of inventions, 5 applications for US patent and 1 patent issued in last 7 years; experience collaborating with industry.
FIU	Dr. Peter Eklund	Nanotechnology / Carbon Nanotube and Nanowire Materials Processing and Sensor Development	\$1,000,000	\$1M	<b>Established first commercial nanotube company</b> ; 2005 \$145M NSF award for nanowire research; +290 research papers; holds 6 US patents, 6 pending, +\$10M in funded research from NSF Dept of Energy, and private industry; supervised 21 Phds; available Fall 2007.