

Research at UCF Growing in Size and Significance

LAST YEAR was another record year for UCF in terms of external funding. The most striking increases in '06 funding are in nanoscience and biomedical sciences, with increases of 300% and 100% respectively.

The Nanoscience Technology Center's efforts include a National Science Foundation CAREER award for Qun Huo, associate professor in the department of chemistry, for a project to develop a synthetic method for incorporating nanoparticles into material structures. Additional projects in the center include developing nanomaterials with superior optical, electrical and thermal properties. The center is also building strong programs in life sciences, including development of new in-vitro systems and drug screening methods, as well as other disciplines with projects involving biological threat detection, nanoscale optics and electronic processing and magnetic sensors.

The Burnett College of Biomedical Sciences continues to grow with research in areas including Alzheimer's disease, treatments for various forms of cancer, investigations into the use of adult stem cells, and a variety of vaccines and therapies using chloroplast transformation in plants. The addition of the University of Central Florida Medical School will serve as a catalyst for even more growth and activity in the Burnett college of Biomedical Sciences. The college plans to offer a doctor of medicine (M.D.) degree program beginning in the fall of 2009.

The college has hired several research faculty in the past year and those faculty are conducting funded research projects in a number of exciting areas. Jack Cheng, an associate professor in the biomedical college, received \$1.2 million in funding last year, largely for work exploring the connection between the brain and heart disease in diabetics.

Kiminobu Sugaya continues pioneering work in the use of adult stem cells to treat Alzheimer's and Parkinson's diseases as well as other neurodegenerative conditions. Sugaya and a partner relocated a company, NeoCytex BioPharma, Inc., to the UCF Technology Incubator to make therapies based on Sugaya's research available to the marketplace.

Faculty from the College of Education, which routinely tops UCF's funding list, secured significant resources to support their work, including the Florida Literacy & Reading Excellence Center, the Reading First Professional Development programs, and the effective Institutional Practices projects.

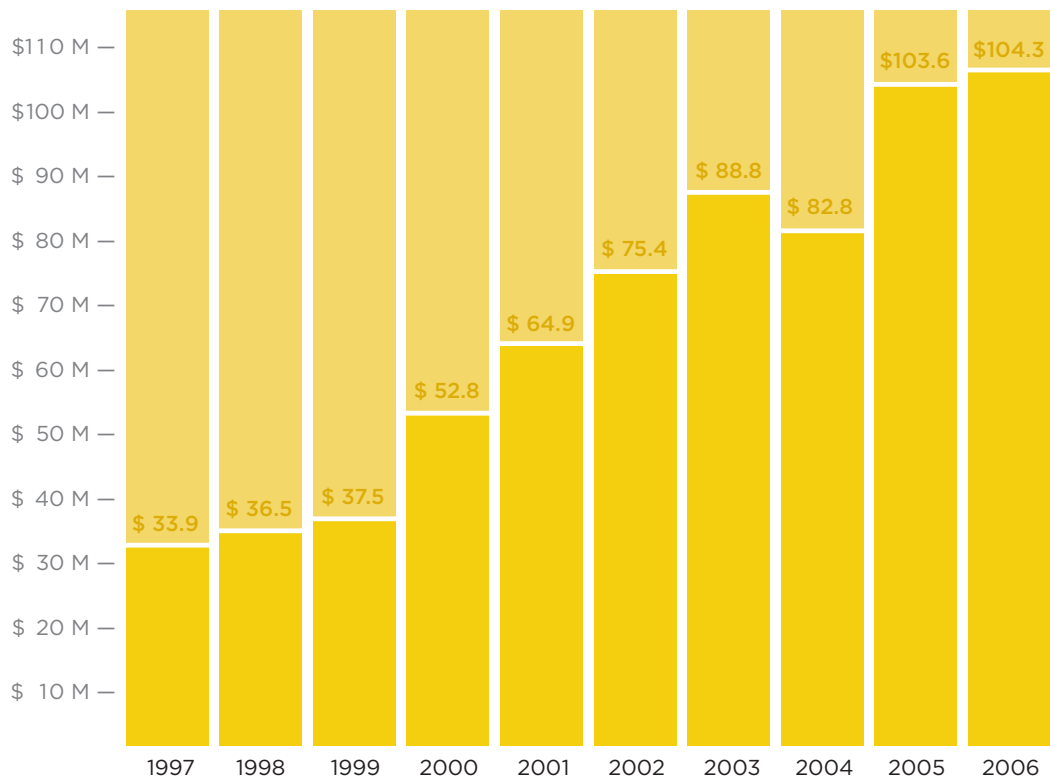
The College of Engineering and Computer Sciences, the Center for Research and Education in Optics and Lasers, the Florida Solar Energy Center, the Institute for Simulation and Training, the College of Sciences, the College of Health and Public Affairs, and the Advanced Materials Processing and Analysis Center all had solid years producing significant research and scholarly activity for funding agencies across the world.

As the numbers in this book indicate, research at UCF is growing in size and significance. Last year the UCF Millionaires Club, established in 2000 to honor researchers receiving a million dollars or more of funding in a year, inducted 21 members. With faculty of that caliber, and more research areas opening up for them to explore here at UCF, we can look forward to more good years ahead.

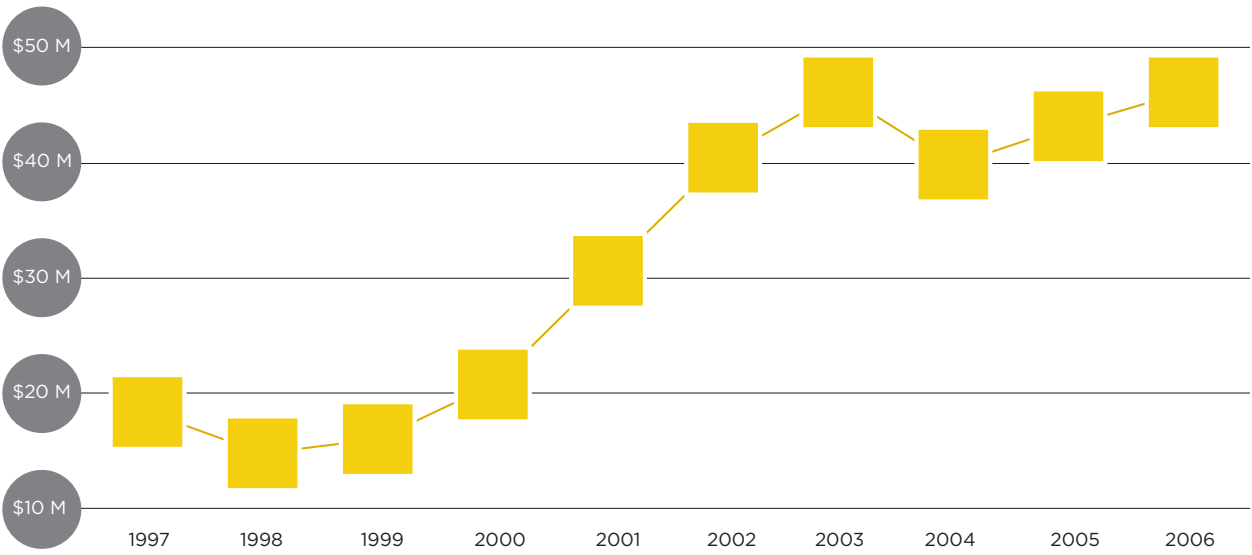
Tom O'Neal

Associate Vice President for Research

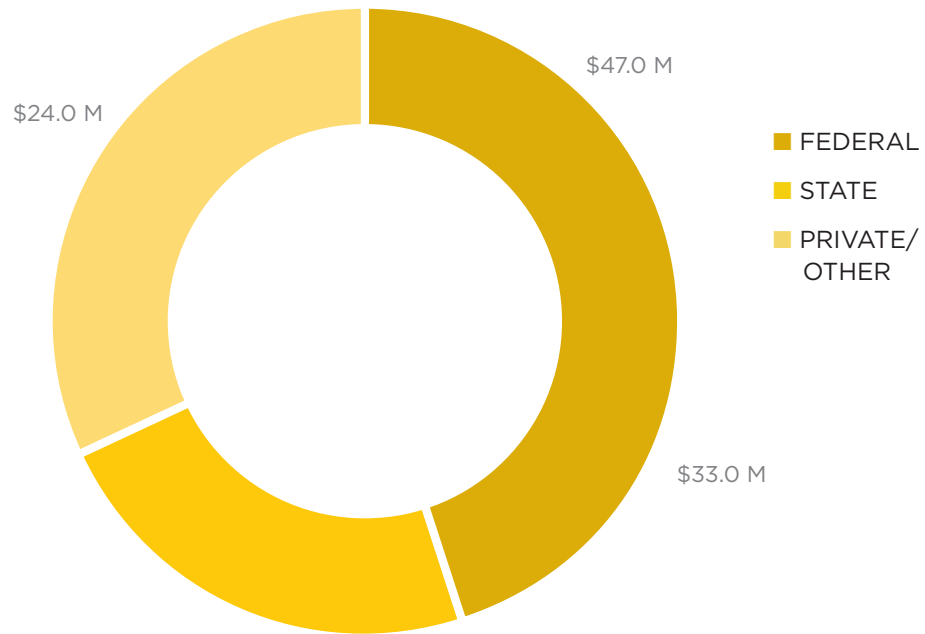
10-YEAR RESEARCH FUNDING HISTORY, 1997-2006



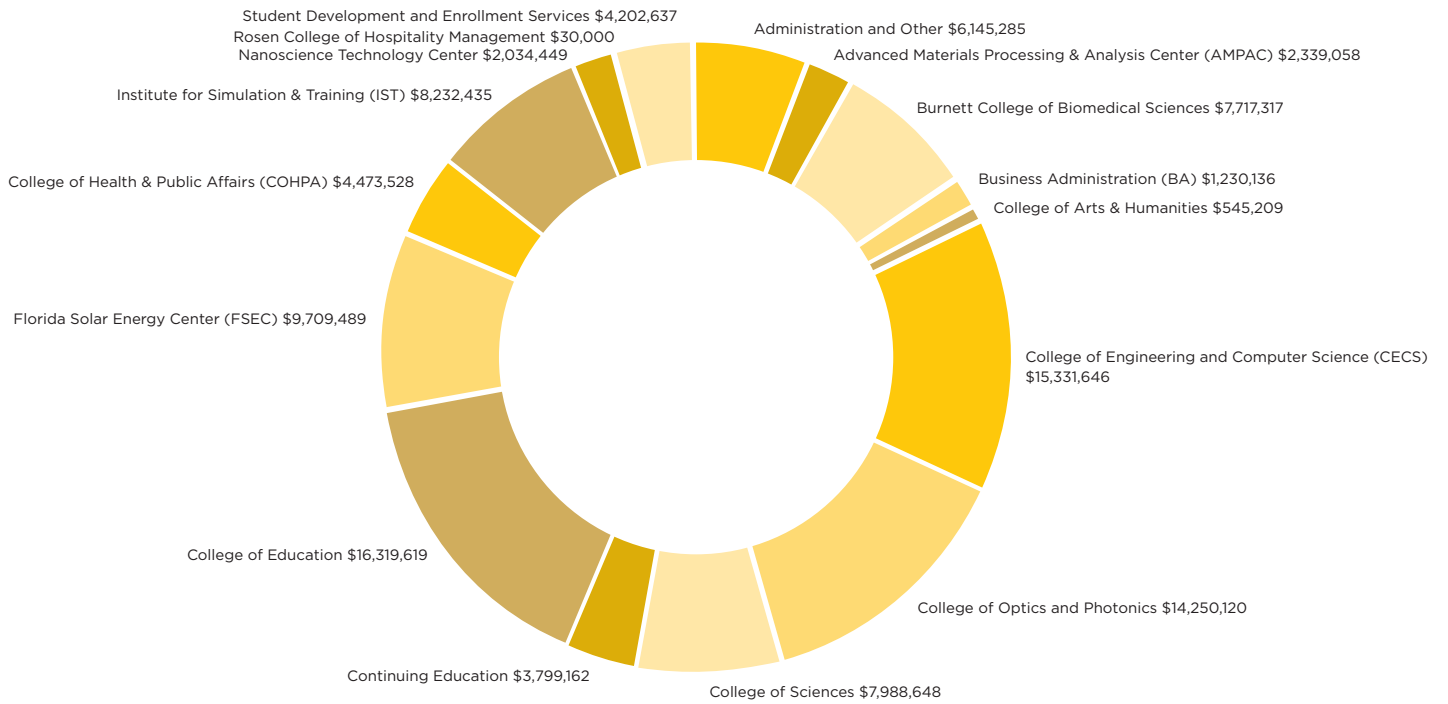
TOTAL FEDERAL AWARDS, 1997-2006



2006 SPONSORED RESEARCH PROGRAM AWARDS BY SPONSOR TYPE



RESEARCH AWARDS BY ACADEMIC UNIT 2006



AGENCY FUNDING

AFOSR
Aha Foundation
Air Force Agency for Modeling and Simulation
Alfred P. Sloan Foundation
Alion Science and Technology
Alion Science and Technology/Micro Analysis & Design Corporation
Alzheimer's Association
American Association of Critical-Care Nurses
American Association of University Women
American Cell Therapy Research Foundation
American Chemical Society/Petroleum Research Fund
American College Health Association
American Heart Association
APECOR
Applicote Associates
Army Research Institute (ARI) via NAVAIR Orlando T
ASRC Aerospace Corporation
ATI Research, Inc.
Bank of America Foundation
Battelle, Pacific Northwest Division
Baylor College of Medicine
Beef Information Center
Bersin & Associates
BioFlorida
Boulder Nonlinear Systems, Inc.
BP
Brevard County Board of Commissioners
Brevard County Natural Resources Mgt. Office
Bristol Myers Squibb Company
Brown & Caldwell
Bruce Wilcox, P.E.
Canon, Inc.
Cardiovascular Sciences, Inc.
Case Western Reserve University
Central FL Area Health Education
Central Florida Fair
CHI Systems, Inc.
CHI-MEI OPTOELECTRONICS
Children's Forum
Chlorgen, Inc.
City of Orlando
Clarkson University
Clemson University
Computer Sciences Corporation
Cornell University
Cotswold Foundation
Defense Modeling and Simulation Office
DARPA
Dartmouth College
Devereux Florida Treatment Network
Disney Animal Kingdom
Disney Wildlife Conservation Fund
DRS Optronics, Inc.
Eagan, McAllister Associates, Inc.
Einstein Montessori School
Electrodynamics Associates, Inc.
Electronic Arts
Embry Riddle Aeronautical University
Emergency Medical Service Group, Inc.
Engineering and Computer Simulations, Inc.
Engineering Systems Solutions, Inc.
Environmental Research and Education Foundation
Epsilon Lambda Electronics
FAAST, Inc.
Federal Aviation Administration
Federal Aviation Administration Technical Center
Federal Bureau of Investigation
FEI Company
FL A&M University
FL Department of Agriculture
FL Department of Community Affairs
FL Department of Education
FL Department of Environmental Protection
FL Department of Health
FL Department of Revenue
FL Department of State
FL Department of Transportation
Florida Alliance for Student Service
Florida Association of Speech-Language Pathologist & Audiologists Foundation, Inc.
Florida Atlantic University
Florida Exotic Pest Plant Council
Florida Hospital
Florida Humanities Council
Florida Institute of Phosphate Research
Florida Institute of Technology
Florida International University
Florida Power & Light
Florida Space Grant Consortium
Florida State University
Ford Motor Company
French American Fund for University Partnerships
Frey Research, LLC
Gal-EI (MMIC)
Gameday Management Group
Gencrest
General Dynamics
General Electric Company
George Mason University
Georgia Institute of Technology
Georgia Southern University
Georgia Tech Research Inst.
Harris Corporation
Healthy Start Coalition
Holden Heights Front Porch Revitalization Council, Inc.
Hubbs-Sea World Research Institute
Idaho National Engineering & Env. Laboratory
Imaging Sciences International, Inc.
InCharge Institute
Innovative American Technology Inc.
Intel Corporation
Intelligent Automation, Inc.
International Network for the Improvement of Banana and Plantain (INIBAP)
Intersil Corporation
ITN Energy Systems
ITT Corporation
J.M. Huber Corporation
Jeff Householder & Company
Jet Propulsion Laboratory
John Hopkins University
Kellogg Foundation
Kent Optronics, Inc.
Kissimmee/Osceola County Chamber of Commerce
L3 Communications-Spacelift Range Systems
Laser Fare Advanced Technology Group
Lawrence Berkley National Labs
Lighthouse Central Florida, Inc.
Link Foundation
Lockheed Martin
Lockheed Martin Integrated Systems & Solutions
Lynntech, Inc.
M&M Systems, Inc.
M.C. Davis
ManTech Systems Engineering Corporation
Manufacture Housing Research Alliance
Marine Mammal Commission
Marquette University
Menon Associates
MetroOrlando Economic Development Commission
Michigan State University
Micro Analysis & Design

Minnesota Campus Compact
 Missile Defense Agency
 Mitsubishi Power Systems
 MtronPTI, Inc.
 Nadic Engineering Services, Inc.
 Nanosource
 NASA
 NASA Headquarters
 NASA Kennedy Space Center
 NASA/GSRP
 National Collegiate Inventors and Innovators Allia
 National Consortium for Academics and Sports
 National Institute of Justice
 National Institute of Standards & Technology
 National Institutes of Health
 National Oceanic & Atmosph Adm (NOAA)
 National Renewable Energy Lab
 National Science Foundation
 National Security Agency
 National University of Ireland
 National Writing Project
 NAVAIR Orlando TSD
 Naval Air Warfare Center Aircraft Division
 North Dakota State University
 Northrop Grumman Corporation
 Nuonics, Inc.
 Office of Naval Research
 Office of the Attorney General
 Optical Research Associates
 OptiGrate
 Optosensors Technology Inc.
 Orange County
 Orange County Government
 Orange County Health & Family Services
 Orange County Health Department
 Orange County Public Schools
 Orange County Sheriffs Department
 Orlando Regional Healthcare Systems
 Orlando-Orange County Expressway Authority
 Pall Corporation
 Palm Harbor Homes
 Patrick Air Force Base
 Pennsylvania State University
 Peter Lowenthal
 PETROBRAS
 Philip Morris, Inc.
 PICO Technologies
 Plasma Processes, Inc.
 Polar Bears International
 Polk County
 Prentke Romich Company (PRC)
 Progress Energy
 Protonex Technology Corporation
 Quality Forensics, LLC
 Quest, Inc.
 Raytheon Company
 RDECOM-STC
 Research Foundation - SUNY
 Research Foundation of UCF
 Residential Energy Service Network, Inc.
 Rini Technologies, Inc.
 Rockwell Scientific
 Rolls Royce Canada
 RWD Technologies, Inc.
 SAIC
 Sandia National Labs
 Sawtek, Inc.
 Semiconductor Research Corporation
 Seminole County
 Sensormatic, Inc.
 Siemens Westinghouse Power Corp
 SISO, Inc.
 Solar Rating & Certification Corporation
 Sonalysts, Inc.
 Southern Company Services
 Space Photonics, Inc.
 Space Telescope Science Institute
 SPAWAR
 Sporian Microsystem
 St. Johns River Water Management District
 STRICOM (via NAWC)
 SVT Associates
 Symantec
 TASC, Inc.
 Technology Applications, Inc.
 Telcordia Technologies
 Texas A&M Research Foundation
 The Eli & Edythe L. Broad Foundation
 The Nature Conservancy
 Tyco Fire and Security
 UCF Foundation, Inc.
 Unassigned
 Unconventional Concepts, Inc.
 United States Israel Binational Science Foundation
 Universal Technology Corporation
 Universities Space Research Association
 University of Colorado
 University of Florida
 University of Florida-FCSHWM
 University of Illinois at Chicago
 University of Maine
 University of Miami
 University of Missouri
 University of Pittsburgh
 University of South Florida
 University of Washington
 University of West Florida
 University of Wisconsin-Madison
 US Air Force Research Lab
 US Air Force-Joint Stars Test Force
 US Army
 US Army Corps of Engineers
 US Army Research Institute
 US Army Research Laboratory
 US Army Research Office
 US Civilian Research & Dev. Foundation
 US Department of Agriculture
 US Department of Agriculture Forest Service
 US Department of Commerce
 US Department of Education
 US Department of Energy
 US Department of Energy-NETL
 US Department of Health & Human Services—PHS-HRSA
 US Fish & Wildlife Service
 US Geological Survey
 US Marine Corps
 US Naval Research Laboratory
 US Virgin Islands Energy Office
 Various
 VDC Display Systems
 Virginia Polytechnic Institute
 VISIT FLORIDA
 Volusia County Government
 VRsonic, Inc.
 Walt Disney World Co.
 Weitzman Institute of Science
 Welnia, LLC
 Winter Park Health Foundation
 WMFE
 Woolpert, Inc.
 Zaubertek, Inc.
 Zyberwear, Inc.



Office of Research and Commercialization
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