

ANNUAL REPORT **2014**

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# UF

**Creating the Future**

**Making a Difference**

**For The Gator Good**



DR. DAVID NORTON  
VICE PRESIDENT FOR RESEARCH

Research is a vital component of UF's mission and a key to its recognition as one of the nation's leading universities. Research funding enables the **University of Florida** to positively impact our state, nation and world by creating new knowledge; translating knowledge into relevant impact; and inspiring the next generation of thinkers, doers and discoverers.

**Creating the Future**

**Making A Difference**

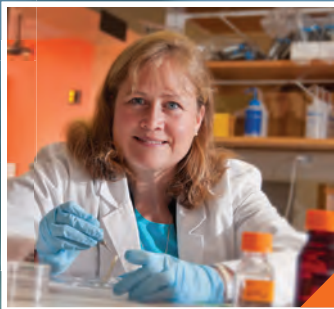
**For the Gator Good**



#UF Research

Making a Difference

For the Gator Good



#UF Research

Making a Difference

Into The Future



## Making A Difference

### ▲ New Nerves

At the Walter Reed National Military Medical Center in Maryland, a US navy petty officer, shot while serving in Afghanistan, has his leg saved and now walks unassisted thanks to a nerve graft technology developed by a UF biotech spin-off company.

### ▲ Blueberry Bonanza

In central Florida, farmers raise blueberries, normally a cool-weather crop, because UF scientists invented a heat-tolerant variety that thrives in the Florida climate.

### ▲ Higgs Team

In Switzerland, experiments at the Large Hadron Collider prove the existence of the Higgs boson, the so-called “God particle” that explains why everything has mass, and UF physicists were part of the team.

### ▲ Tornado Protection

In Alabama, a team of forensic engineers led by a UF researcher analyzes damage caused by devastating tornadoes to better understand how construction practices can lead to stronger, safer buildings.

## Into The Future

### ▲ Personalized Medicine

UF pharmacy researchers are leveraging genetic profiles to tailor clinical treatment of individual patients undergoing heart procedures.

### ▲ Citrus Greening

IFAS scientists are unraveling the secrets hidden in the DNA of the bacteria that causes greening to find a cure for this disease that threatens Florida’s \$9 billion citrus industry.

### ▲ Deepwater Impacts

UF environmental scientists are examining oil residue that remains in the Gulf of Mexico years after the Deepwater Horizon oil spill to better understand and forecast long-term impacts of this disaster.

### ▲ Everything Internet

UF engineers are playing a leading role in researching the next generation of “smart” electronics through UF’s Multi-functional Integrated System Technology (MIST) Center, a program funded by a National Science Foundation program that combines federal money with industry investments in strategic research.



## Creating the Future

## Making A Difference

## For the Gator Good

**L**ast year, the University of Florida received **\$702 million** in research awards, eclipsing the previous record of \$678 million in 2009 during the federal economic stimulus. This success is testimony to the research prowess of our faculty and the deep commitment of the research administrators who serve them.

To ensure continued growth in the research enterprise, the Office of Research has been engaged in several major initiatives geared toward moving the university forward in significant ways:

- ▲ As part of the **UF Preeminence** initiative, we are supporting the recruitment of new faculty.
- ▲ We have created the **UF Informatics Institute** to facilitate cross-disciplinary research and education in data science and its applications in engineering, the physical sciences, the life, health and social sciences, education and the humanities.
- ▲ We are supporting UF Health in its drive to achieve **National Cancer Institute** designation within the next five years.

The Office of Research is also pursuing several operational initiatives to better serve the needs of our growing research enterprise:

- ▲ Through the **UF Integrated Research Support Tool (UFIRST)** we are reengineering the university's proposal development and submission system to create a fully integrated, streamlined electronic platform that captures all pre-award sponsored program functions.
- ▲ We are creating a **Research Analytics** unit that will harness, extract and exploit data-driven metrics on fiscal management, proposal submission, compliance, awards and tech transfer.

Other ongoing initiatives include:

- ▲ Working to enhance the impact of research through collaborative strategic partnerships with industry and government laboratories.
- ▲ Exploring innovative paths to translating university research into startups.
- ▲ Addressing gender disparity in entrepreneurship through the **UF Empowering Women in Technology Startups Program**.



**R&D EXPENDITURES AT PUBLIC INSTITUTIONS, 2012**

*Dollars in thousands*

|    |   |           |
|----|---|-----------|
| 1  | University of Michigan                    | 1,322,711 |
| 2  | University of Wisconsin                   | 1,169,779 |
| 3  | University of Washington                  | 1,109,008 |
| 4  | University of California, San Diego       | 1,073,864 |
| 5  | University of California, San Francisco   | 1,032,673 |
| 6  | University of California, Los Angeles     | 1,003,375 |
| 7  | University of North Carolina, Chapel Hill | 884,791   |
| 8  | University of Pittsburgh                  | 866,638   |
| 9  | University of Minnesota                   | 826,173   |
| 10 | Penn State University                     | 797,679   |

|    |                                    |                |
|----|------------------------------------|----------------|
| 11 | Ohio State University              | 766,513        |
| 12 | University of California, Berkeley | 730,348        |
| 13 | University of California, Davis    | 713,292        |
| 14 | <b>UNIVERSITY OF FLORIDA</b>       | <b>696,985</b> |
| 15 | Texas A&M University               | 693,421        |
| 16 | Georgia Institute of Technology    | 688,905        |
| 17 | M.D. Anderson Cancer Center        | 685,814        |
| 18 | University of Arizona              | 625,365        |
| 19 | University of Texas, Austin        | 621,538        |
| 20 | Purdue University                  | 602,501        |

Source: National Science Foundation



# What We Do

**The UF Office of Research aims to be an exemplary,  
model organization in the art and science of  
discovery and innovation, in the stewardship of  
resources, and in the conduct of research.**



## Program Development

We identify external funding opportunities, facilitate industry outreach, support complex proposal development, and connect researchers to funding agencies. We provide resources for new initiatives and oversee internally funded seed programs.



## Proposal Processing and Awards Administration

We facilitate the submission of more than 5,000 proposals annually and administer nearly 10,000 active projects.



## Research Compliance

We manage and support all research compliance obligations related to fiscal, human subject, animal use, export control, conflict of interest, responsible conduct of research, and research misconduct. We support all internal and external audits of the research enterprise and provide institutional controls, education and training.

**OFFICE**



# A D E R S

ACCOUNTABILITY   DRIVERS   ELUCIDATE   RELEVANCE   SERVICE



## Technology Transfer

We facilitate patenting, licensing, startups, and business incubation through the Office of Technology Licensing and the UF Research Foundation. In FY 2014, the university issued a record 87 licenses and options and helped start 17 new companies. The Sid Martin Biotechnology Incubator was selected as the top biotech incubator in the world. In addition, the Clinical and Translational Science Institute targets the translation of basic research into health-care outcomes.



## Shared Resources

We manage research-centric shared resources, including Institutional Review Boards, Animal Care Services, the Interdisciplinary Center for Biotechnology Research and numerous interdisciplinary centers and institutes whose cross-disciplinary missions include water, climate, informatics, smell and taste, and emerging pathogens.



## Research Communications

We promote the UF research enterprise within the state and around the globe using print, electronic and social media. Recent efforts include formation of the Science Communications Academy and creation of a Science Journalist in Residence program.

## OF RESEARCH

## Summary of Sponsored Research Activity

|   |                      |
|---|----------------------|
| <b>Proposals Submitted</b>                    | <b>4,887</b>         |
| <b>Awards Received</b>                        | <b>6,014</b>         |
| <b>New Awards Received</b>                    | <b>2,601</b>         |
| <b>Continuations or Supplementals</b>         | <b>3,413</b>         |
| <b>Grant and Contract Dollars Awarded</b>     | <b>\$682,150,357</b> |
| <b>Gifts for Research</b>                     | <b>\$19,546,688</b>  |
| <b>Total Sponsored Research Funding</b>       | <b>\$701,697,045</b> |
| <b>Projects Active During the Fiscal Year</b> | <b>9,164</b>         |
| <b>Faculty Receiving Awards</b>               | <b>1,878</b>         |
| <b>Sponsors</b>                               | <b>1,045</b>         |

## 2014 Research Awards by Academic Unit

### 10% **ALL OTHER** Academic Units Total \$70M

|                                   |         |
|-----------------------------------|---------|
| Office of Research                | \$21.8M |
| Centers & Institutes              | \$21.7M |
| Florida Museum of Natural History | \$7.3M  |
| Health & Human Performance        | \$4.0M  |
| Other Colleges                    | \$3.6M  |
| Design, Construction and Planning | \$3.1M  |
| Graduate School                   | \$2.7M  |
| Journalism and Communications     | \$2.1M  |
| Business Administration           | \$1.9M  |
| Facilities Planning               | \$1.8M  |

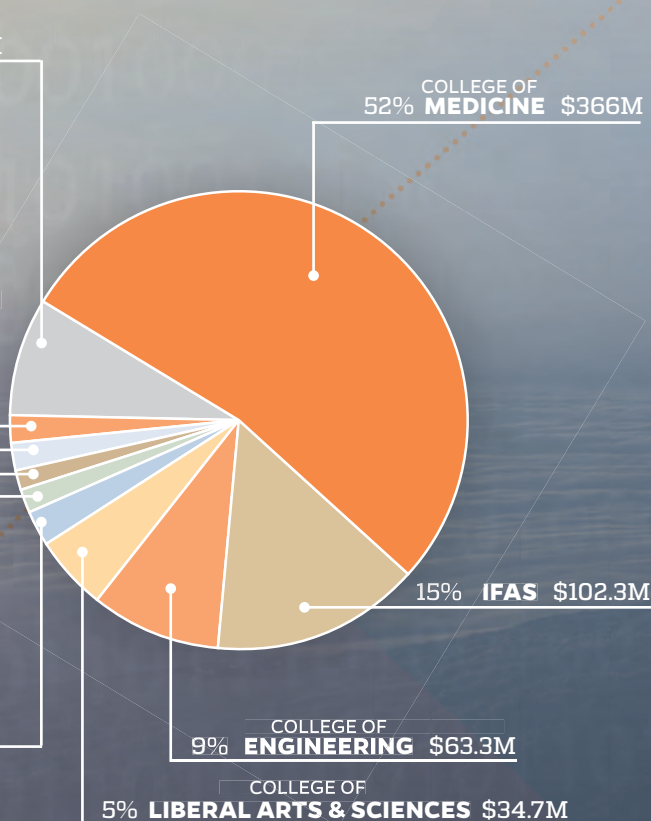
COLLEGE OF  
2% **PHARMACY** \$12.9M

COLLEGE OF  
2% **DENTISTRY** \$13.7M

COLLEGE OF  
1% **VETERINARY MEDICINE** \$8.5M

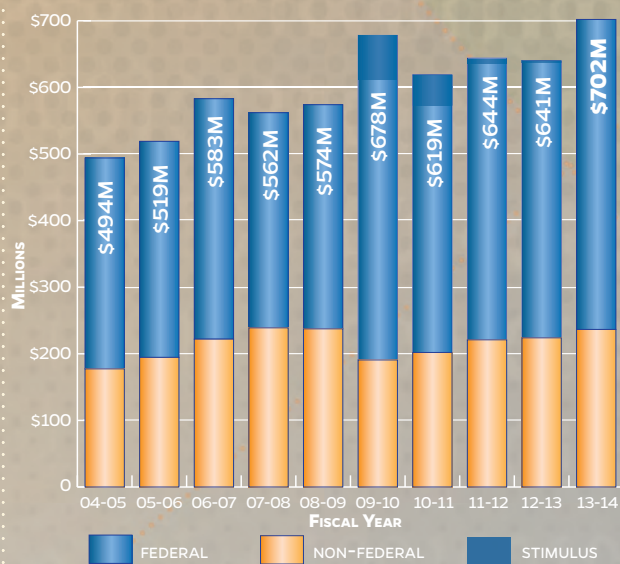
COLLEGE OF  
2% **EDUCATION** \$11.8M

COLLEGE OF  
2% **PUBLIC HEALTH & HEALTH PROFESSIONS** \$18.4M

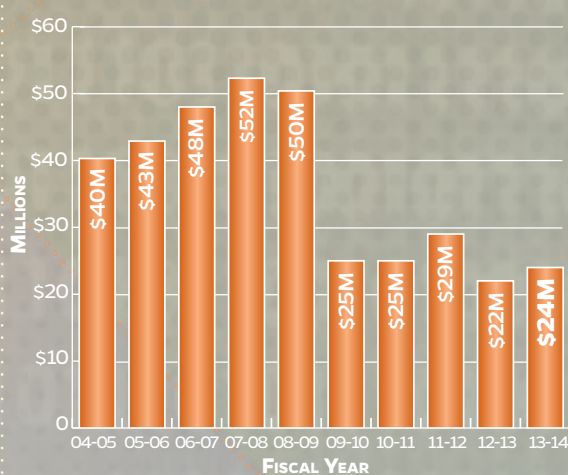




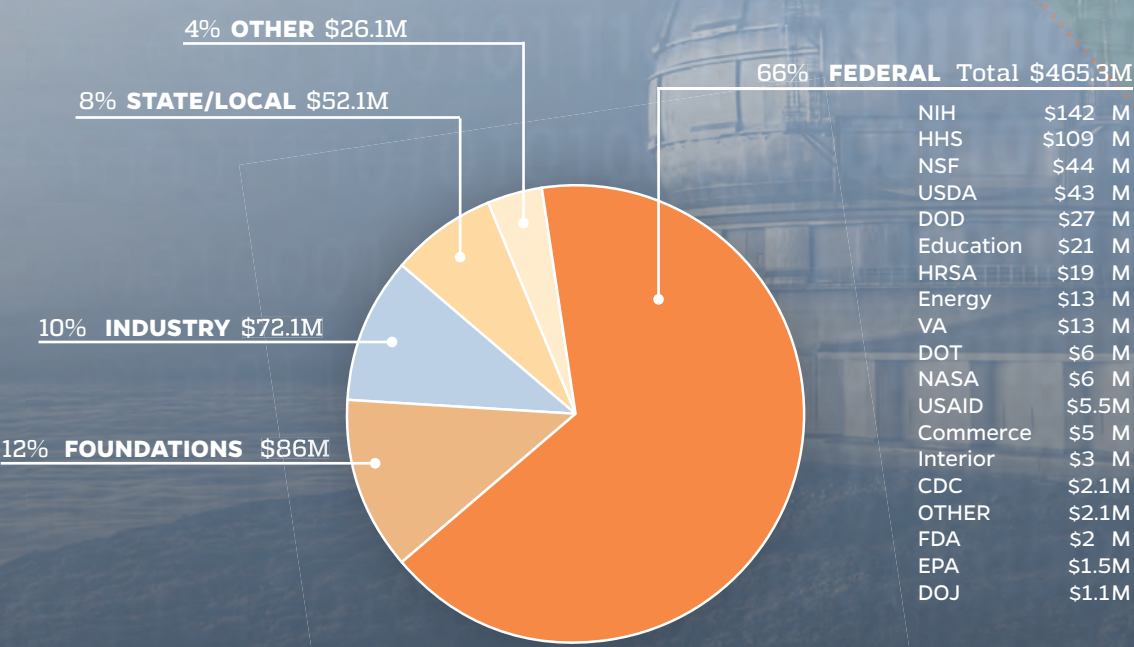
# 2005-2014 Sponsored Research Awards



# 2005-2014 Technology Transfer Income



# 2014 | Research Awards by Sponsor



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