



**UNIVERSITY OF
SOUTH FLORIDA**

**A PREEMINENT
RESEARCH
UNIVERSITY**

The Evolution of a Research University

**President Judy Genshaft and Senior Vice President Paul Sanberg
Florida Board of Governors, June 2019**

TOP 30 Public Research Universities

- | | | | |
|----|---|-----------|---|
| 1 | U. Michigan, Ann Arbor | 16 | U. California, Berkeley |
| 2 | U. California, San Francisco | 17 | U. California, Davis |
| 3 | U. Washington, Seattle | 18 | Michigan State U. |
| 4 | U. Wisconsin-Madison | 19 | Rutgers, State U. New Jersey, New Brunswick |
| 5 | U. California, San Diego | 20 | U. Texas, Austin |
| 6 | U. North Carolina, Chapel Hill | 21 | U. Illinois, Urbana-Champaign |
| 7 | U. California, Los Angeles | 22 | Purdue U., West Lafayette |
| 8 | U. Pittsburgh, Pittsburgh | 23 | U. Arizona |
| 9 | U. Minnesota, Twin Cities | 24 | U. Alabama, Birmingham |
| 10 | Texas A&M U., College Station and Health Science Center | 25 | U. SOUTH FLORIDA, TAMPA |
| 11 | U. Texas M. D. Anderson Cancer Center | 26 | U. Maryland, College Park |
| 12 | Ohio State U. | 27 | Arizona State U. |
| 13 | Pennsylvania State U., University Park and Hershey Medical Center | 28 | Indiana U., Bloomington |
| 14 | Georgia Institute of Technology | 29 | Virginia Polytechnic Institute and State U. |
| 15 | U. Florida | 30 | North Carolina State U. |



USF's Trajectory



1956

USF Founded

1971

USF President Cecil Mackey Jr. launches a new era of research at USF. U.S. Rep. Sam Gibbons spearheads the creation of the USF College of Medicine alongside the James A. Haley Veterans Hospital.

1994

USF earns Research II designation from the Carnegie Foundation

1998

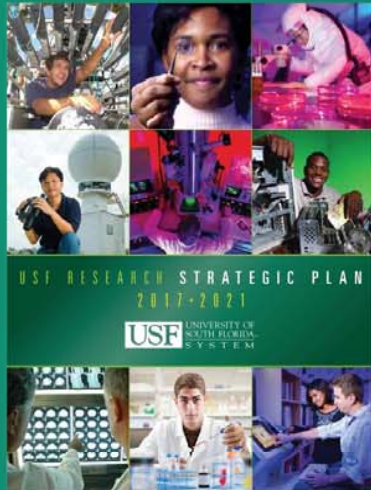
Florida Board of Regents identifies USF, UF and FSU as 'Research I' Universities

2000

Carnegie Foundation designates USF as a Research I university

- One of only 63 public universities in the highest tier
- Only Florida university designated Community Engaged

Reaching Goals



2016

USF creates first research strategic plan among Florida public Universities



2018 **USF named a Florida Preeminent State Research University**

ROI of a Research University



- Supports Economic Development
- Strengthens the Social Fabric
- Builds Florida's National Reputation
- Draws Additional Top Students and Faculty

Research Centers, More than 80



USF Health Morsani College of Medicine and Heart Institute



Neuroscience



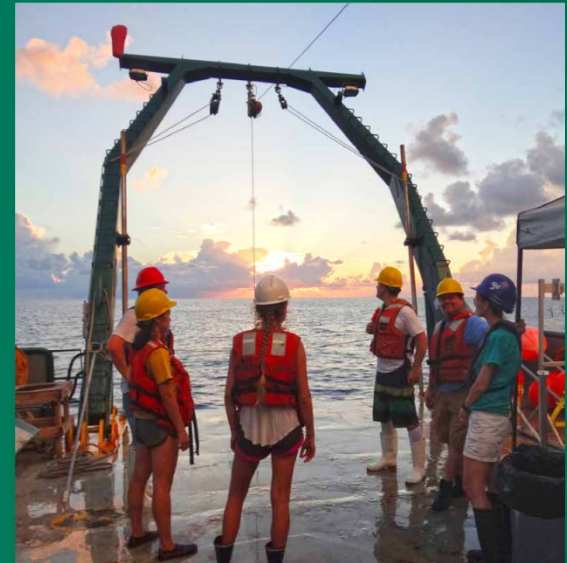
Cybersecurity



Assistive Technologies



Clean Energy



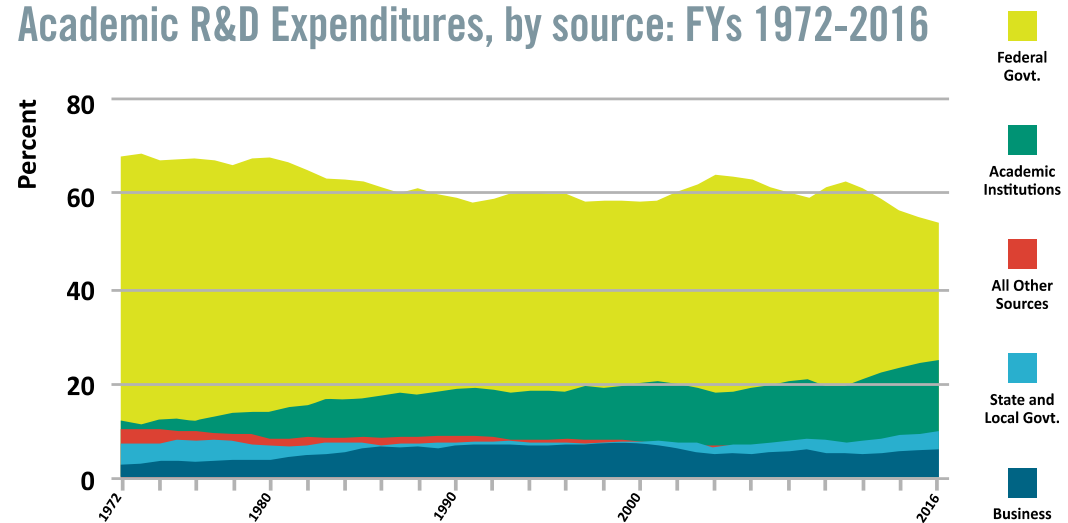
Gulf of Mexico Research

Financial Resources are Key

Sources of Academic R&D funding

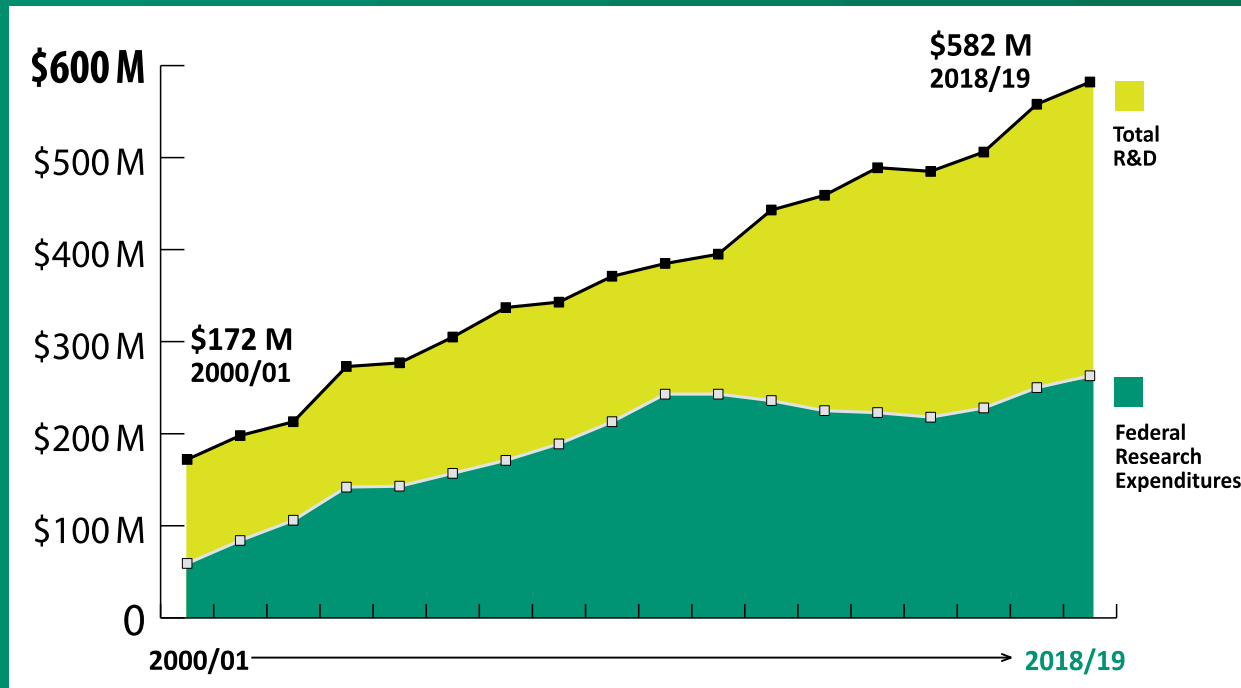
- Federal government (around 60%)
- Universities' and colleges' institutional funds
- State and local government
- Businesses and other organizations

Academic R&D Expenditures, by source: FYs 1972-2016



Source: NSF

Research Expenditures



Congressional Support is a Game Changer

\$331.6 million – from 2000 to 2010 – supported vital projects:



- \$54.2 million over 10 years
Biological & chemical threats
- \$32 million over five years
Functional genomics
- \$14.4 million over five years
Underwater autonomous sensors
- \$35.9 million over six years
Micro Electrical Mechanical
Systems (MEMS) Sensors
- \$1.8 million in 2010
Battlefield-related injury
translational research

Partnerships Fuel Research Capabilities



Shriners Hospitals
for Children®



Hillsborough
County Florida



World Class Faculty are Central to Research Success



Dr. Jeffrey Krischer

Division Chief, Morsani College of
Medicine Informatics Institute
Top funded NIH researcher
worldwide



Dr. Sarah Yuan

Professor & Chair, Morsani
College of Medicine Molecular
Pharmacology & Physiology

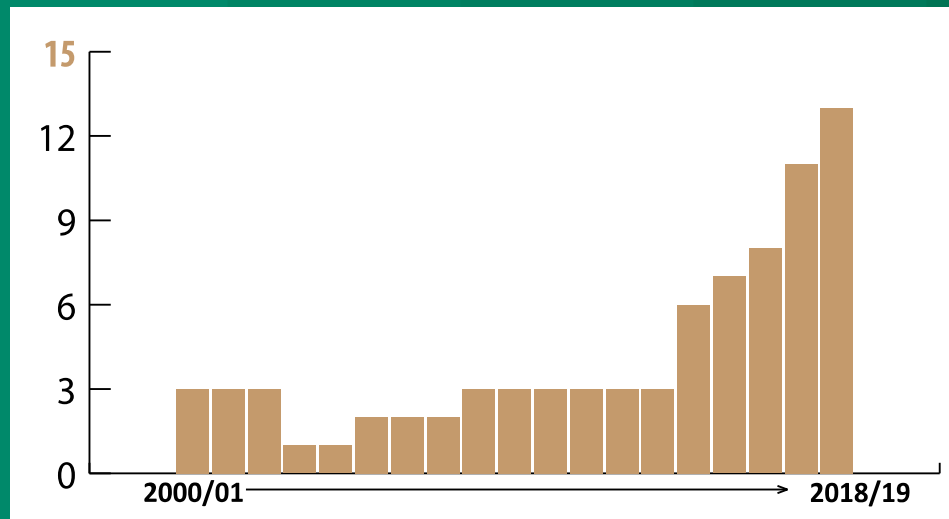


Dr. Ramon Gonzalez

Leads the Laboratory for Metabolic
Engineering and Biomanufacturing
Florida 21st Century World Class Scholar

Members of the National Academies

2000/01 to 2018/19 – **333%** increase



Source:
National Academies of
Science, Engineering,
and Medicine

Faculty National Awards



Building a Culture of Innovation



- **National Academy of Inventors**
1,060 NAI Fellows; over 250 institutions worldwide.
- **USF Research Park**
In the past five years, USF has facilitated the formation of 51 startup companies.
- **Inventors Commons**
Home of the Florida Inventors Hall of Fame and Inventor's Walk, celebrating Florida's history as a state of innovation and 400+ USF inventors.
- **Student Innovation Incubator**
Serves more than 25 student companies annually with training through the national I-Corps, entrepreneurial mentoring and business support.

Experiential Learning for Undergrads

- **Undergraduate Research Conference**
495 student presenters; 336 poster presentations;
13 colleges represented.
- **USF Undergraduate Research Society**
A student-led effort in 2017, now is USF's largest
student organization at 1,600 members.
- **USF/Howard Hughes Medical Institute
(USF-HHMI) STEM Academy**
A five-year grant provided a week-long program for more
than 1,000 first-year STEM students with a special emphasis
on first-generation scholars.



The Path Forward for Research Universities

- **Create Partnerships**
Federal; universities; private sector
- **Write a Strategic Plan**
Mission, vision and values for success with accountability and metrics
- **Update Tenure and Promotion**
To incentivize research and innovation goals
- **Incorporate Research and Innovation**
Into undergraduate education
- **Engage the Wider Community**
Explain benefits to the economy and quality of life
- **Success Fuels Success - Prestigious Institutions Average:**
 - 65% higher grant application success rates
 - 50% larger awards*(2018 Cold Springs Harbor's bioRxiv study)*



**UNIVERSITY OF
SOUTH FLORIDA**

A PREEMINENT RESEARCH UNIVERSITY