UGA’s Research Mission

Larry Hornak, Associate Vice President for Research, Professor of ECE
Jill Tincher, Executive Director, Sponsored Projects Administration
Jake Maas, Director, Office for Proposal Enhancement

Aug. 2, 2023

Welcome from Vice President for Research, Karen J. L. Burg

• Harbor Lights Chair in Biomedical Research in the College of Veterinary Medicine
• Named Vice President for Research in 2021
Your Research, Scholarly and Creative Activities are Central to Achieving UGA’s Strategic Goals

Your...  
• Teaching of your students engaged in research, outreach and creative work,  
• Impactful research and scholarship programs you develop, and  
• The partnerships and trusted relationships you build

are all fundamental to achieving UGA’s Strategic Plan and UGA’s Research Goals
A sample of our faculty’s external recognition

Guggenheim Memorial Foundation
National Academy of Sciences
MacArthur Foundation
National Academy of Inventors
American Association for the Advancement of Science

Help Continue This Trend

UGA’s R&D Expenditures, FY 2016-2022

<table>
<thead>
<tr>
<th>Fiscal Year</th>
<th>2018</th>
<th>2019</th>
<th>2020</th>
<th>2021</th>
<th>2022</th>
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</thead>
<tbody>
<tr>
<td>TOTAL (Millions)</td>
<td>$453</td>
<td>$478</td>
<td>$483</td>
<td>$494</td>
<td>$546</td>
</tr>
<tr>
<td>Federally funded contracts and grants</td>
<td>$149</td>
<td>$160</td>
<td>$171</td>
<td>$188</td>
<td>$220</td>
</tr>
</tbody>
</table>

- UGA exceeded $0.5B per year in total R&D expenditures
- Increasing **federally funded** grants & contracts is a priority

Source: National Science Foundation Higher Education Research and Development Survey
https://www.nsf.gov/statistics/srvyherd/
Help Continue This Trend

**UGA's R&D Expenditures, FY 2013-2022**

<table>
<thead>
<tr>
<th>FY</th>
<th>Federal Funds</th>
<th>Non-Federal Funds</th>
<th>Institutional (UGA) Funds</th>
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</thead>
<tbody>
<tr>
<td>FY 2013</td>
<td>$546M</td>
<td>$350.2M</td>
<td>$350.2M</td>
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<tr>
<td>FY 2012*</td>
<td>$546M</td>
<td>$350.2M</td>
<td>$350.2M</td>
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<tr>
<td>FY 2021</td>
<td>$493.9M</td>
<td>$355.5M</td>
<td>$355.5M</td>
</tr>
<tr>
<td>FY 2020</td>
<td>$482.8M</td>
<td>$350.2M</td>
<td>$350.2M</td>
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<tr>
<td>FY 2019</td>
<td>$477.5M</td>
<td>$350.2M</td>
<td>$350.2M</td>
</tr>
<tr>
<td>FY 2018</td>
<td>$465.2M</td>
<td>$350.2M</td>
<td>$350.2M</td>
</tr>
<tr>
<td>FY 2017</td>
<td>$455.4M</td>
<td>$350.2M</td>
<td>$350.2M</td>
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<tr>
<td>FY 2016</td>
<td>$410.3M</td>
<td>$350.2M</td>
<td>$350.2M</td>
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<tr>
<td>FY 2015</td>
<td>$374.3M</td>
<td>$350.2M</td>
<td>$350.2M</td>
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<tr>
<td>FY 2014</td>
<td>$355.5M</td>
<td>$350.2M</td>
<td>$350.2M</td>
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<tr>
<td>FY 2013</td>
<td>$350.2M</td>
<td>$350.2M</td>
<td>$350.2M</td>
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NSF HERD Rankings

Table 21. Higher education R&D expenditures, ranked by FY 2021 R&D expenditures: FYs 2010–21

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<tbody>
<tr>
<td>U. Colorado-Boulder</td>
<td>52</td>
<td>6.6%</td>
<td>54</td>
<td>6.7%</td>
<td>52</td>
<td>6.5%</td>
<td>51</td>
<td>6.2%</td>
<td>49</td>
<td>6.0%</td>
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<tr>
<td>North Carolina State U.</td>
<td>53</td>
<td>6.7%</td>
<td>51</td>
<td>6.4%</td>
<td>49</td>
<td>6.2%</td>
<td>50</td>
<td>6.4%</td>
<td>49</td>
<td>6.3%</td>
</tr>
<tr>
<td>Virginia Polytechnic Institute and State U.</td>
<td>54</td>
<td>6.8%</td>
<td>52</td>
<td>6.4%</td>
<td>50</td>
<td>6.1%</td>
<td>52</td>
<td>6.1%</td>
<td>52</td>
<td>6.1%</td>
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<tr>
<td>U. California, Irvine</td>
<td>55</td>
<td>6.9%</td>
<td>53</td>
<td>6.8%</td>
<td>48</td>
<td>6.1%</td>
<td>50</td>
<td>6.1%</td>
<td>52</td>
<td>6.1%</td>
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<tr>
<td>U. Chicago, The</td>
<td>56</td>
<td>7.1%</td>
<td>57</td>
<td>7.1%</td>
<td>51</td>
<td>6.7%</td>
<td>49</td>
<td>6.3%</td>
<td>49</td>
<td>6.3%</td>
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**UGA**

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<tbody>
<tr>
<td>University of Georgia</td>
<td>57</td>
<td>7.1%</td>
<td>58</td>
<td>7.4%</td>
<td>59</td>
<td>7.3%</td>
<td>61</td>
<td>7.5%</td>
<td>59</td>
<td>7.5%</td>
</tr>
<tr>
<td>Scripps Research Institute, La Jolla</td>
<td>58</td>
<td>7.2%</td>
<td>60</td>
<td>7.4%</td>
<td>59</td>
<td>7.3%</td>
<td>61</td>
<td>7.5%</td>
<td>59</td>
<td>7.5%</td>
</tr>
<tr>
<td>SUNY Polytechnic Institute</td>
<td>59</td>
<td>7.3%</td>
<td>60</td>
<td>7.3%</td>
<td>55</td>
<td>6.7%</td>
<td>53</td>
<td>6.3%</td>
<td>52</td>
<td>6.1%</td>
</tr>
<tr>
<td>Oregon Health and Science U.</td>
<td>60</td>
<td>7.4%</td>
<td>61</td>
<td>7.5%</td>
<td>54</td>
<td>6.6%</td>
<td>53</td>
<td>6.3%</td>
<td>52</td>
<td>6.1%</td>
</tr>
<tr>
<td>Colorado State U. , Fort Collins</td>
<td>61</td>
<td>7.5%</td>
<td>65</td>
<td>8.1%</td>
<td>59</td>
<td>6.7%</td>
<td>53</td>
<td>6.3%</td>
<td>52</td>
<td>6.1%</td>
</tr>
<tr>
<td>Calitnine Institute of Technology</td>
<td>62</td>
<td>7.6%</td>
<td>64</td>
<td>7.8%</td>
<td>58</td>
<td>6.9%</td>
<td>53</td>
<td>6.3%</td>
<td>52</td>
<td>6.1%</td>
</tr>
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</table>
Research Excellence

Provost's Task Force on Academic Excellence
- Precision agriculture
- Environmental sciences
- Biomedical science (especially brain science)
- Social science
- Security—cybersecurity, national security, food security

Cluster hire initiatives
- Artificial intelligence, machine learning, & data science
- Integrated precision agriculture
- Brain & behavioral health

Office of Research: Our Mission

Encourage, Support, Promote and Recognize your research, scholarly and creative activities

The Office of Research encourages and supports innovative interdisciplinary research, scholarship and creative activities that contribute to the physical, emotional and economic well-being of the people of Georgia, the nation and the world. Through partnerships and collaborations, we seek to share knowledge, increase innovation and deliver the products of our research to the marketplace.
How do we encourage and support research?

- Seed grants
- Team building
- Proposal development and submission
- Partnerships and initiatives
- Facilities, technology, and resources
- Awards and recognition
- Safety and advocacy for research personnel
- Legal and ethical compliance
- Intellectual property and new ventures
- Communicate UGA research successes

How We Encourage

18 Interdisciplinary research centers, institutes and initiatives to draw upon

https://research.uga.edu/centers-institutes/

Three examples:
- The Willson Center for Humanities and Arts
- Owens Institute for Behavioral Research
- Biomedical and Translational Sciences Institute
How We Encourage
Internal Grant programs

https://research.uga.edu/iga/grants/

- Faculty Research Grants
  - Seed grants in sciences and engineering
  - Arts and Humanities: Willson Ctr
  - “Grants on the Edge/within Reach”

- Research Team Support
  - Team Formation & Development
  - Pre-Seed and Seed Grants
  - Large Team Leadership Training
  - Major Integrative Proposal Support

Shelley Hooks
Internal Grants
Research Personnel

Larry Hornak
Integrative Team Initiatives

How We Support
Proposal Development, Mission Agency Relationships

- Office for Proposal Enhancement
  - Large, complex proposal development
  - Resubmission strategy and narrative editing
  - Grantsmanship training

- UGA Research Institute (UGARI), Office of Defense & Security Collaborations
  - Facilitates Defense, Energy, and Security Agency Relationships
  - Support faculty in mission-driven research and its special needs - proposal through execution

Jake Maas
Proposal Enhancement
https://research.uga.edu/proposal

Larry Hornak
UGARI, Defense and Security Collaborations
https://research.uga.edu/dsc
How We Support

Core Facilities
- Instrument Design and Fabrication
- Bioimaging
- Statistical Consulting
https://research.uga.edu/core-facilities/

Unique Facilities
- University of Georgia Marine Institute
- Skidaway Institute of Oceanography
- Savannah River Ecology Laboratory (SREL)
- UGA-Tifton and Griffin

Extension, Public Service and Outreach Partnerships

How We Support

Innovation Gateway
https://research.uga.edu/gateway
Assists faculty and students with
- Intellectual Property Protection & Licensing
- NSF I-Corps, Accelerator
- Programming for aspiring innovators
- Startup Incubator
- Growing Innovation District

Office of Business Engagement
https://dar.uga.edu/business-engagement
- Partnerships with industry
- Shared value from research, innovation, creative works, workforce development

Can I Recycle This? Startup

2022 Golden Helix Awardees

Delta Innovation Hub
We help to assure research with integrity

The Office of Research Integrity and Safety (ORIS) supports studies with …

- Human subjects (IRB)
- Animal subjects (IACUC)
- Biohazardous agents (IBC)

ORIS also supports …

- Export Control
- UGA research / lab safety initiatives
- Occupational Health services
- Research Misconduct investigations

https://research.uga.edu/compliance

How We Support

Personnel

- Postdocs
- Visiting Scholars
- Research Scientists

Sponsored Projects https://spa.uga.edu

- Proposal review and submission
- Award receipt, negotiation and account set up
- Financial management: invoicing, reporting and compliance
- Find funding
  - Pivot database: https://guides.libs.uga.edu/grants/pivot
Sponsored Projects

Jill Tincher, Executive Director, Sponsored Projects Administration

August 2, 2023
What are Sponsored Projects?
(externally funded)

Sponsored Projects Administration (SPA)
serves the UGA research community by providing expert guidance, exceptional service, and reduced administrative burden throughout the sponsored project lifecycle and allowing our investigators to foster positive change in the world.
Resources

Unit and Central Administrators
Delegated Limited Signature Authority
In-Person and Virtual Training
Robust Website
www.spa.uga.edu

How Can SPA Help You?

Research Idea
Grant Application
Human Subjects
Proposal Submission
Office for Sponsored Programs
Budget Monitoring
Expenses
Award Management
Human Resources
Contractual Agreements

Resources

Unit and Central Administrators
Delegated Limited Signature Authority
In-Person and Virtual Training
Robust Website
www.spa.uga.edu
Proposal Enhancement

Jake Maas, Director

Aug. 2, 2023

Office for Proposal Enhancement

https://research.uga.edu/proposal-enhancement

Jake Maas
Director

Rebecca Kirkland
Proposal Development Officer

Rachel Ankirskiy
Research Development Professional
Proposal Development Support

- Large, complex proposals (3+ months’ lead time)
- Proposals with broad institutional benefit: instrumentation, training grants, DEIA, IE
- Resubmissions
- Smaller proposals as we have time and capacity

Over 7.5 Years OPE has:

- Worked on 550+ proposals potentially worth over $1.7B
  - Average proposal amount over $3M
- Helped bring in over $230M in extramural funding
- Conducted grantsmanship events involving 2000+ faculty, postdocs, and grad students
Project Management Services

- Project Management (timeline/checklist for all proposal parts, schedule and coordinate meetings, etc.)
- Provide strategic advice on making proposal competitive
- Connect investigators with UGA resources, offices, units
- Coordinate collaborating institutions for a proposal
- Assist with sponsor communications
- Coordinate with SPA/DLSA

- Provide outlines for narratives and ancillary components
- Write sections as appropriate (e.g., resources, management, timeline, communications, outreach, DEIA)
- Develop/review ancillary documents (biosketches, facilities, collab letters, etc.)
- Edit proposal drafts
- Coordinate institutional support requests
- Manage “Red Team” review
- Assist with post-submission revisions

Other Proposal-Specific Services (4+ weeks’ lead time)

Resubmissions

- Analyze proposal reviews
- Talk through reviews with investigators
- Develop “resubmission strategy” in consultation with investigators
- Provide feedback/editing on resubmission

Proposal Editing (as capacity permits)

- Conformity with solicitation
- Effectiveness of argument for funding
- Organization, clarity, flow
- Word choice, grammar, spelling
**General Proposal Support**

- Newsletters/Listserv announcements of funding opportunities
  - Large Grants/Limited Submissions [weekly email](#)
  - Monthly Grants sections in [Research Insights](#)
- Share successful proposals (with PI permission)
- **Maintain up-to-date boilerplate** for core facilities, centers/institutes, broadening participation, other institutional commitments
- **Provide templates** for most documents
- Assist faculty in navigating through administrative structures within UGA
  - Coordinate with SPA/DLSAs/Grant Coordinators

**Grantsmanship/Outreach**

- General and bespoke workshops, webinars, and presentations
- Departmental/unit outreach
- External speakers, infosessions, and workshops
- Panel Discussions
- Peer Review for NSF CAREER and other programs
- NIH Mock Panels
- Subscribe to our Youtube channel: [https://www.youtube.com/channel/UCCDpdKr6tPBP66UOciwDyQ](https://www.youtube.com/channel/UCCDpdKr6tPBP66UOciwDyQ)
The Impact of your Research, Scholarship and Creativity

UGA ranks Top 5 for 9th year for # of products reaching the market based on its research
- ~1100 products to date
  - Vaccines, pharmaceuticals, turfgrass, peanuts, software, etc.

UGA Discovery → Impact: Technology Transfer

1100+ Products
Introduced to the Marketplace

Top 10 Licenses/Options with Industry among US Universities

60 Products
Reached the Market in FY2022
UGA Discovery → Impact: Startups

250+ Startups
Launched Based on UGA Research

$531 Million
Annual Economic Impact from Research-Based Startups

Top 15
For Active Startups among U.S. Public Universities

Translation & Impact through our Partnerships

NSF ENGINES Program Development Award
Next Generation Agriculture (Next GA): Engine for Robust, Adaptive Rural Innovation

Moultrie, GA:
Colquitt County Seat, Epicenter of Georgia Agriculture
How We Support
Recognition for your Research Achievements

Faculty Awards
https://research.uga.edu/iga/awards
- Nomination through Deans, Center/Institute Directors
- All Career Stages
- New Awards:
  - Research Communication
  - Team Impact
  - Inventor and Entrepreneur Awards

Stay Connected - Office of Research Channels

Publications/Series
- Research Insights
- Research Live
- RCCR newsletter
- @UGAResearch website
- @UGAResearch newsletter
- Innovation Gateway newsletter
- Willson Center Newsletter

Listservs
- VPR research faculty
- Large grants & limited submissions
- Postdocs
- Research Personnel

https://research.uga.edu/communications/guide-to-research-media/
https://research.uga.edu/start-your-research-program

Stay Connected - Office of Research Channels
Who to contact in the Office of Research?

- Shelley Hooks: Internal Grants, Research Personnel
- Jaka Mass: Proposal Enhancement
- Jill Tinch: Sponsored Projects
- Chris King: Research Integrity and Safety, Research Security & Export Control
- Larry Hornak: Integrative Team Initiatives, Limited Submissions, Defense and Security Collaborations
- Carl Bergman: Core Labs and Research Facilities
- Derek Eberhart: Entrepreneurship and Technology Transfer
- Kyle Tschepikow: Business Engagement and Innovation
- Jake Maas: Proposal Enhancement
- Ian Biggs: Startups, Innovation Gateway
- Mike Terrazas: Research Communications
- Eric Ferreira: Core Labs and Research Facilities
- Jill Tincher: Sponsored Projects

We're here to help!

Toolkit to jumpstart your research
• [https://research.uga.edu/start-your-research-program](https://research.uga.edu/start-your-research-program)

Not sure who to ask?
• ovpr@uga.edu or 706-542-5969

We want to hear from you
• Share your feedback
Thank you!
Questions for our Team?