Research Development Services and Intramural Funding Programs

Karen Eck, PhD
Director of Research Development
Office of Research
Total Research Expenditures ($M)
Distribution of Sponsored Research at ODU

- Arts & Letters: 23%
- Business & Public Administration: 1%
- Education: 17%
- Engineering: 21%
- Health Sciences: 5%
- Sciences: 32%
- Office of Research & Centers: 0%
Research Clusters

- Modeling, Simulation, Visualization
- Lifespan Biology
- Alternative Energy
- Materials/Nanotechnology
- Environment
- Transportation
- Social/Behavioral Impact
- Education
Military Simulations
Serious Gaming – Education Applications
Transportation – Mass Evacuation
Medical Modeling – Virtual Surgery
Critical Infrastructure Resilience
Social Networking – Crowd, Riots
Lifespan Biology

- Human Movements (Education)
- Biological Sciences (Sciences)
- Proteomics, Genomics, Environmental Health, Physical Therapy (Health Sciences)
- Biomechanics (Engineering)

- Frank Reidy Research Center for Bioelectrics
**Frank Reidy Research Center for Bioelectrics**

**MISSION:** use interaction of electromagnetic fields with biological cells and to development of medical diagnostics, therapeutics, and environmental decontamination.

- **Wound healing**
- **Cardiovascular**
- **Imaging**
- **Decontamination**
- **Treatment of Cancer**
Materials/Nanotechnology

- Nano-Particles
- Nano-Electronics
- Surface Structures
- MEMS
- Diagnostics
- Condensed Matter
- Nuclear Physics
- Plasma
- Accelerator Science

- COSMIC
- ARC
Thomas Jefferson
National Accelerator Facility

- ODU Physics Group is the largest University partner in Nuclear Experiment Research
  - $400M ongoing upgrade
  - FEL Light Source (~14kW)
Alternative Energy

• Algal Biodiesel Research @ COSMIC and Hopewell

• Solar Cell Research @ ARC and Kaufman

9 University Partners - 6 Government Partners - 3 Industry Partners
Environment

- Physical Oceanography
- Marine Life & Habitat
- Coastal Engineering
- Sea-Level Rise (MARI)
- Corrosion
- Ocean History
Social/Behavioral/Economic Impact

Social Science Research Center

- Alcohol Screening and Intervention
- Heart Healthy Data Analysis and Evaluation
- Services for Students with Emotional Disabilities Survey
- Life in Hampton Roads Survey
- Infant and Toddler Connection of Virginia Family
Arts/Humanities/Creative Writing

- Tim Seibles nominated for a National Book Award (2013)
- 2 EU grants to International Studies and International Business to develop programs related to “Getting to know the EU”
- NEH summer stipends (Philosophy & History)
- Communications & Theatre Arts - interdisciplinary science education theatre for children - *Science Alliance Live!*
RESEARCH

NSF FY 2012 R&D Ranking - Total Research Expenditures

- ODU overall: 145/655  top 22%
- Universities without a Med School: 57/511  top 11%
- Engineering: 95/382  top 25%
  - Electrical & Computer: 35/284  top 12%
  - Mechanical: 34/272  top 13%
- Environmental Science: 76/458  top 17%
  - Oceanography: 25/140  top 18%
- Mathematics: 73/455  top 16%
- Physics: 87/441  top 20%
- Political Science 66/300  top 22%
- Non-Science/Engineering: 41/534  top 8%
- Education: 20/424  top 5%

Functions of the ODU Office of Research

An administrative division of the University, headed by the Vice President for Research, who reports to the University President.

• Research Development offers strategic proposal development services to both new and senior faculty. In addition, the team coordinates large multi-disciplinary research efforts and serves as a liaison to funders, external partners and the business community.

• Research Compliance – ensures adherence to federal regulations governing research risks.

• Licensing and Technology – focuses on converting the results of academic endeavors to commercially viable products.
Functions of the ODU Research Foundation

- A 501(c)(3), private non-profit organization, separate from the University.
- Serves as fiscal and administrative agent for sponsored program activities.
- Grant & Contract Administrators (GCAs) work with faculty members both “pre-award,” at the proposal submission stage, and “post-award” to administer funded grants.
Why write grants?

• Helps advance your career
• Enhances your reputation in your field
• Gains you recognition in your department, college and university

• Provides FUNDING for you to pursue your research interests!
Getting started . . .

Build a “Funding Résumé”

• Develop a positive reputation in your community – professional associations, conferences
• Build a record of publications that focus on your research interest(s)
• Awards and recognition
• Foundation grants
• State grants
• Smaller government grants
• Partner with a more experienced faculty member/agency/educational institution
You’re not on your own…
(unless you prefer to be!)

ODU’s Office of Research provides support to new and experienced faculty members interested in research.
Research Development

Mission

To support ODU faculty in research development activities, including:

- Strategic Planning
- Exploring Funding Opportunities
- Building Collaborative Teams
- Developing Competitive Grant Proposals
Karen Eck
DIRECTOR OF RESEARCH DEVELOPMENT

GRANT DEVELOPMENT SPECIALISTS:

Karina Arcaute
Elizabeth Saltzman
Steve Landowne
Melissa Hallman
Jackie Stein
Jackie Stein

Research Development at ODU

Batten College of Engineering & Technology
College of Health Sciences
College of Sciences
Darden College of Education
College of Arts & Letters
Strome College of Business

RESEARCH DEVELOPMENT AND OUTREACH COORDINATOR:
TBA
Not everyone needs or wants the same thing...

So we provide “cafeteria-style” support for proposal development.
The Research Development and Outreach Coordinator

“Menu of Services”

– Searches for funding opportunities
– Compiles and sends lists of funding opportunities that cover broad research areas to your desktop bi-weekly.
  Funding Listservs:
  • Education
  • Science & Engineering
  • Biomedical & Health Sciences
  • Humanities, Social Sciences & Business
  • Sign up on the Office of Research website at: http://www.odu.edu/facultystaff/research/funding/opportunities/searches/listserv
– Coordinates ODU Office of Research intramural funding opportunities.
– Coordinates workshops and training for ODU faculty.
– Is a resource on using Pivot for funding searches.
PIVOT

• Pivot is a research funding and scholar profile database.

• To sign up go to the Pivot link http://pivot.cos.com/funding_main and click on sign up!
## Search Funding Results

**Your Search:** (((NSF AND Graduate AND Research AND Fellowships)))

- Advanced Search
- Save Search
- Refine Search

<table>
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<th>Submission type</th>
<th>Count</th>
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<tr>
<td>Limited Submission:</td>
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<table>
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<tr>
<th>Top funding types</th>
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<tbody>
<tr>
<td>Training or Scholarship:</td>
<td>11</td>
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<tr>
<td>Research:</td>
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<tr>
<td>Postdoctoral Award:</td>
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<td>Dissertation or Thesis:</td>
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<tr>
<td>Collaboration or Coope.:</td>
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<table>
<thead>
<tr>
<th>Top sponsor types</th>
<th>Count</th>
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<td>Federal, U.S.:</td>
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<tr>
<td>National Government, N.:</td>
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<tr>
<td>Private Foundation:</td>
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<td>Other Nonprofit:</td>
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<tr>
<td>Professional Society o.:</td>
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<th><strong>19 Results</strong></th>
<th>Deadline</th>
<th>Amount</th>
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<tbody>
<tr>
<td>- Atmospheric and Geospace Sciences Postdoctoral Research Fellowships (AGS-PRF)</td>
<td>02 Feb 2014</td>
<td>$172,000</td>
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<tr>
<td>- Postdoctoral Research Fellowships in Biology (PRFB)</td>
<td>08 Oct 2013</td>
<td>$138,000</td>
</tr>
<tr>
<td>- NSF/FDA Scholar-in-Residence at FDA</td>
<td>unspecified</td>
<td>see record</td>
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<tr>
<td>- Graduate Research Fellowship Program (GRFP)</td>
<td>13 Nov 2013</td>
<td>$42,000</td>
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</table>
The Grant Development Specialist
“Menu of Services”

The Grant Development Specialist for your college can help you:

– Develop projects strategically
– Locate funding opportunities
– Analyze solicitation requirements
– Develop guidelines for proposal formats
– Develop outlines for writing
– With editing
Grant Development Specialists may also...

– Foster collaboration
  • Locate collaborators
  • Coordinate and collect proposal elements such as biosketches or letters of support

– Contact funding agencies

– Serve as a liaison to the Research Foundation

– Assist with writing/re-writing
  • May write certain sections (i.e. institutional background)
  • Help consolidate/blend writing from multiple authors
  • Provide “heavy” edits that address tone and style

– Research facts and statistics

– Draft Letters of Support

– Link faculty to IRB
Grant Development Specialists *(usually)* don’t . . .

- Actually write your grant for you
- Develop budgets
  - Research Foundation’s purview
- Develop certain aspects of written proposal
  - Specific aims
  - Interpretation of results/preliminary work
- Provide support for manuscripts
- *and Grant Development Specialists don’t provide support for intramural grant proposals because those competitions are coordinated and funded by the Office of Research.*
Intramural Funding at ODU

The Office of Research also provides competitive intramural funding through the following programs:

- Summer Research Fellowship Program (SRFP)
- Junior Faculty Research Mentoring Program (*new)
- Research Seed Funding Program (RSFP) (*new)
- Faculty Proposal Preparation Program (FP3)
Summer Research Fellowship Program (SRFP)

- The goal of the Summer Research Fellowship Program (SRFP) is to foster the research capabilities of 1) new, inexperienced investigators, and 2) more experienced investigators, for exploratory studies that have not yet received external funding.

- These awards of $6,000 & up to $1,000 for expenses are considered to be seed money for research and future scholarly effort.

- Full-time, tenure-track ODU faculty are eligible and preference is given to: 1) investigators who have been at the university for less than four years and who have not served as a Principal Investigator on a significant number of research projects and 2) more experienced investigators embarking on exploratory studies which represent a significant change in research direction and for which they have received no external funding to date.
Junior Faculty Research Mentoring Program

- The goal of the program is to support ODU faculty-to-faculty mentoring by pairing an experienced faculty member with a track record of extramural funding and a junior tenure-track faculty member who wants to be mentored and commits to submitting a competitive funding proposal at the end of the mentoring period.

- Mentees will receive a course release and travel funds of up to $500 to visit a program officer.

- For one academic year of mentoring, Mentors may receive either: (1) a $3000 stipend, (2) a one-semester course release or (3) the equivalent funds to be added to a discretionary account.

- Deadline for this year: Friday, November 14, 2014

- Deadline for AY2015-16: April 10, 2015
The long range goal is to garner new external funding for ODU and to enhance its basic and applied research capabilities.

The funding of up to $50,000 is for work extending through the calendar year, January 1 – December 31.

Teams provide a written report, make an oral presentation and follow up with an aggressive plan to attract external grants.

Proposals must involve either (a) an innovative technology that can transition to the marketplace or (b) basic research that (1) has a practical application and needs an external partner to move forward, or (2) will position the PI to be highly competitive in seeking specific external funding.
Faculty Proposal Preparation Program (FP3)

• The goal of the program is to release faculty members from their teaching commitments by one course so that high quality, competitive proposals can be developed for submission to extramural agencies.

• The deans of the colleges each nominate up to two tenure-track faculty members for this program.

• Faculty members must have well-defined projects and be ready to write a proposal to an identified external funder.
<table>
<thead>
<tr>
<th>Funding Program:</th>
<th>Summer Research Fellowship Program (SRFP)</th>
<th>Junior Faculty Research Mentoring Program</th>
<th>Research Seed Funding Program (RSFP)</th>
<th>Faculty Proposal Preparation Program (FP3)</th>
</tr>
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<tbody>
<tr>
<td><strong>Eligibility</strong></td>
<td>Primarily for Non-tenured Tenure-track Faculty. Up to 20% of funding may go to Tenured Faculty.</td>
<td>Tenure-track assistant professor with less than 4 years at this rank and 2 years from a tenure decision.</td>
<td>Tenure-track/Tenured Faculty &amp; Research Professors. One time award to substantially increase chance of external funding</td>
<td>2 Tenure-track/ Tenured Faculty with a defined project may be nominated by the Dean per semester.</td>
</tr>
<tr>
<td><strong>Funding Period:</strong></td>
<td>8 weeks of full-time summer research</td>
<td>One academic year; meeting on a weekly basis</td>
<td>12 months: 1/1/2015 – 12/31/2015</td>
<td>Fall 2015 or Spring 2016</td>
</tr>
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| **Award Amount:** | • $6,000 Stipend  
• up to $1,000 for justified expenses | • Course release in Fall or Spring  
• Up to $500 to visit a program officer | Total budget cannot exceed $50,000 | 1 semester course release |
| **# of PIs:** | 1 PI | 1 Mentee; 1 Mentor (senior faculty member with track record of external funding) | Minimum of 2 PIs; can involve external collaborator(s) or a company | 1 PI |
| **Due Date:** | Submit to Dean by Friday, 10/24/2014  
Due to Office of Research 11/17/2014 | Due to Office of Research 11/17/2014; FY2015-2016 due April 10, 2015 | Submit to Office of Research by Friday, 10/31/2014 | Submit to Office of Research by Friday, 1/23/2015 |
Questions?
Upcoming Office of Research Workshops

NIH R15 Grant: Fitting a Niche at ODU

Tuesday, September 9
12:00 – 1:30 pm
Library Learning Commons, rooms 1310-1311

NSF: An Insider’s View with Dr. Gail Dodge

end of October, TBA