Supporting Faculty-led Scholarly Activities

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Vice Provost for Research
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GW's mission is to improve the world with the discoveries and creative expressions of its faculty and students. This requires the university to invest in the areas of scholarship and research where it can have the greatest success and to ensure that its research ecosystem matches the aspirations of the university community. And it requires that the university facilitate research that crosses disciplinary and geographic boundaries. GW will build on the progress it has made, exploring ways to support research that continues to generate groundbreaking discoveries and innovative ideas.
Institution-wide Goals

➢ Ensure that principal investigators have the support and flexibility they need to focus on their research.

➢ Enhance GW's research and scholarly reputation and promote discoveries and innovations made by the university community.

➢ Align the research and academic enterprises.

➢ Enrich the educational experience of GW students by increasing opportunities to work and publish with faculty.
A Rising Research Institution

Total Federal R&D Expenditures [2009-2020]

Published Research & Conference Papers [2009-2021]

#1 in the nation’s capital

Highest Total Federal R&D Expenditures of colleges and universities in Washington, D.C.
Types of Sponsored Research (FY22) / $210.1 Million

- Health-Related: Medicine and Health Sciences, 23%
- Health-Related: Public Health, 21%
- Health-Related: Biostatistics, 21%
- Health-Related: Nursing, 2%
- Health-Related: Engineering, 2%
- Science and Engineering, 12%
- Arts and Humanities, 0.3%
- Social Sciences, 12%
- Other, 7%

*Includes $12.8M of CARES Act funding that must be excluded from NSF HERD submission.

- Health-Related - $44.5M (69%)
- Science & Engineering - $25.2M (12%)
- Arts & Humanities - $0.5M (0.3%)
- Social Sciences - $25.9M (12%)
- Other* - $14.0M (6.7%)
Sources of Funding (FY22) / $210.1 Million

- Federal* - $175.9M (84%)
- Foundation - $17.1M (8%)
- International - $5.2M (1%)
- Non profit - $6.7M (3%)
- Corporations - $3.0M (1%)
- State - $2.3M (1%)
- Other - $64K (0.3%)

*Includes $12.8M of CARES Act funding that must be excluded from NSF HERD submission.
Innovation Impact

Since 2010

350+ new ventures created

$1Bn follow-on funding

Between FY12 and FY22

85% increase in patents filed

82% increase in patents issued

41% increase in inventions disclosed

FY22

55 inventions disclosed

20 patents issued

15 licensing deals
GW’s sponsored research collaborations have been located in more than 85 countries on six continents.

More than 10% of all sponsored research projects have an international component.

4.3% of all of GW’s sponsored projects are funded by an international sponsor.
Resources throughout the Research and Scholarship Lifecycle
GW Offices Involved in the Success of a Project

Office of Sponsored Projects
Protected Subjects
Vice Provost for Research
Libraries
General Counsel
Schools and Depts
UG Research
Grad and Postdoc Affairs

Comms and Marketing
Procurement
IT
Research Integrity
HR
Faculty, Student & Postdoc Scholars
Faculty Affairs
Int’l Programs

Grants & Contracts
Finance/Controller
Ethics, Compliance & Privacy
Development
Corporate and Foundation Relations
Tech Transfer
Provost
Safety and Security
Find External Funding

➢ **Pivot**
   • Searchable database of funding opportunities from a variety of sources. Allows user to receive automatic updates on customized, saved searches.

➢ **Research Enhancement Unit**
   • 1:1 consultations to identify funding sources/mechanisms and get the most out of the Pivot database.

➢ **Philanthropic Support**
   • The Office of Corporate and Foundation Relations (CFR) works with external partners to support faculty research.

Source: [https://ncses.nsf.gov/pubs/nsf22312](https://ncses.nsf.gov/pubs/nsf22312)
Intramural Funding

Seed funding with the goal of securing external funding and garner external recognition.

➢ **University Facilitating Fund**
  • New projects and activities that will have significant impact in a scholar’s field

➢ **Cross-Disciplinary Research Fund**
  • Collaborative partnerships between scholars from two or more diverse departments

➢ **Humanities Facilitating Fund**
  • New scholarship in the humanities

➢ **University Seminars**
  • Sustained exploration of issues that cross traditional disciplinary boundaries

➢ **Special Programs**
  • International travel support, projects related to institutional priorities (e.g., COVID-19, etc.)
Research Enhancement Services

➢ **Funding Roadmaps**
  • Identify targeted opportunities to expand and diversify sources of research funding.

➢ **Proposal Editing & Project Management**
  • Technical and scientific proposal editing services to GW investigators applying for federally-sponsored research opportunities.

➢ **Workshops and Seminars**
  • Grant writing seminars, grantsmanship training, and orientations to GW systems.
Develop and Submit Proposals

➢ **Research Enhancement Unit (REU)**
  • REU provides support for finding funding opportunities as well as editing services for federal research proposals. Available at no cost to the PI!

➢ **Research Administration Pods**
  • Notify your research administration pod that you intend to submit a proposal; then work with your assigned pod staff to finalize the submission.

➢ **Office of Sponsored Projects (OSP)**
  • OSP works closely with the research administration pods and is responsible for submitting proposals to the sponsor.

If your funding opportunity limits the number of applications from any one institution, please review the [guidelines for limited submission opportunities](#).
## Research Administration Pods

Your First Point of Contact for Sponsored Projects Administration

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<thead>
<tr>
<th>Pod 1</th>
<th>Pod 2</th>
<th>Pod 3</th>
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<tr>
<td>• Columbian College of Arts and Sciences</td>
<td>• Milken Institute School of Public Health</td>
<td>• School of Medicine and Health Sciences</td>
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<tr>
<td>• Elliott School of International Affairs</td>
<td>• Biostatistics Center</td>
<td>• School of Engineering and Applied Science</td>
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<td>• School of Business</td>
<td>• GW Law</td>
<td>• School of Nursing</td>
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<td>• Graduate School of Education and Human Development</td>
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<td>• College of Professional Studies</td>
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<td>• Libraries and Academic Innovation</td>
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Research administration pods manage the complete lifecycle of a sponsored research project and provide continuity from inception to award closeout. [Learn more about the pods.](#)

Any unit not assigned to a pod may email [askovpr@gwu.edu](mailto:askovpr@gwu.edu) for guidance.
Office of Sponsored Projects

The Office of Sponsored Projects (OSP) supports the university’s research mission by providing oversight and stewardship of externally-sponsored research.

A Collaborative Approach

- The OSP team works closely with investigators, pods, school-based research staff and administrators across campus to ensure success and compliance throughout all phases of a sponsored project.
Definition of a Sponsored Project

Sponsored Projects
• are activities that are sponsored, in whole or in part, by sources external to GW;
• have a stated expectation for either performance and/or reporting beyond simple stewardship of funds;
• are reviewed and approved by OVPR; and
• are fiscally setup and managed through GW’s financial system.

➢ GW’s Policy on Categorization of External Funding can be found here: https://compliance.gwu.edu/finance-policies
Transferring Grants to GW

- Grants are awarded to institutions, not individuals. For this reason, your prior institution must "relinquish" the grant to GW. In addition, the awarding agency must approve all grant transfers from one organization to another.

- Your research administration pod is the first point of contact for transferring projects from your prior institution.

- The research administration pod will work closely with the Office of Sponsored Projects to transfer the award.
Award Management

The principal investigator (PI) has primary responsibility for the financial and technical aspects of a sponsored project.

➢ Research Administration Pods
➢ Office of Sponsored Projects
➢ Roles & Responsibilities Matrix
  • This document clarifies responsibilities of investigators and administrators, OSP, and other related offices for each phase of a sponsored project. *(GW Login required)*
➢ Grants and Contracts Accounting Services
  • GCAS supports effort certification, post-award financial compliance, invoicing, and other accounting services.
Electronic Systems for Sponsored Research Administration

- **myResearch**
  - Proposal creation, reviews and SF424 submissions
  - Award modifications
  - Research agreement submission, review, negotiation and execution
  - Subaward creation
  - New award intake, acceptance and setup

- **PI Dashboard**
  - Summary and detail reports, interactive visualizations and transaction details
  - Up-to-date information on a grant’s expenditures
  - Dynamic reporting
  - Exportable information
  - Accessible anywhere with a single login
What are my roles and responsibilities as a PI?

Dean / Research Dean / Department Chair

- Set strategic direction
- Commit faculty effort to projects (balancing other academic and administrative commitments)
- Provide necessary resources, including space
- Mentor faculty

Principal Investigator (PI)

- Conception and strategic direction of research program
- Teaching and service activities
- Requests for funding including proposals and award changes
- Ensuring compliance with federal, state, sponsor and university policies, laws and regulations to include progress reports and approval of financial transactions

Department / Research Administrators (Pods)

- Assist and support the PI in all aspects of research administration, including proposal submission, personnel transactions, expenditures, subaward invoice approvals, financial monitoring, etc.

Your department chair, associate dean for research, or research administration pod leader can provide additional information about your role as a PI.
Can I sign agreements pertaining to my own research?

The short answer is no

• Research proposals and awards require institutional approval by a GW authorized representative.
  • According to university's bylaws, only certain individuals are authorized to contractually bind the university: the president, the provost, and the EVP CFO, or such other person or persons as may be authorized by the Board of Trustees. Pursuant to their delegation, the EVP CFO has further delegated the authority to sign sponsored research grants and contracts to VPR and her/his designees.

• All proposal, award, subaward, certifications and related documents must contain a university-authorized approval or signature, including:
  • Confidentiality agreements
  • MTAs
  • DUAs
  • Teaming agreements
  • Collaboration agreements
  • Other agreements on behalf of the university
Purchasing and Hiring on a Sponsored Project

➢ **Goods and Services, including Equipment**
  • Procurement and Travel Services offers multiple methods for purchasing goods and services. The method varies depending on the nature and amount of the purchase involved.

➢ **Travel**
  • Review reimbursement policy and special considerations for international travel.

➢ **Personnel**
  • **Human Resource Management and Development** manages the staff hiring process.
  • **Office of Graduate Student Assistantships and Fellowships**
  • **GW Student Employment**

➢ **University Payables**
Use, Manage and Share Data

➢ **Data Use Agreements**
  • The Office of Research Integrity can assist in the drafting of DUAs or provide an approved template. ORI must review and approve all DUAs.

➢ **Data Management Plans**
  • GW Libraries has resources for building Data Management Plans.

➢ **Data Privacy**
  • The GW Privacy Office answers questions related to compliance with privacy laws, regulations and policies, and best practices for data protection.

➢ **High-Performance Computing**
  • Research Technology Services supports computationally intensive activities for research and teaching.
Responsible Conduct of Research

- **Responsible Conduct of Research**
  - Programming in support of the core norms, ethics, principles, regulations, and rules governing the practice of research.

- **Export Controls**
  - Compliance with regulations that govern the shipment or transfer, by whatever means, of controlled items, software, technology, or services out of the U.S.

- **Conflict of Interest**
  - Compliance with regulations that govern conflicts of interest.

- **Research Misconduct**
  - Reviews allegations of fabrication, falsification, or plagiarism in proposing, performing, or reviewing research, or in reporting research results.
How do I secure my research from undue foreign influence?

GW is committed to enhancing the global reach of our research and therefore supports and encourages international collaborations, interdisciplinary research, and the global exchange of ideas.

Recent federal oversight activities have highlighted concerns about foreign threats to U.S. intellectual property and the integrity of research endeavors, including:

- diversion of intellectual property to foreign entities;
- disclosing confidential grant application information to third parties;
- failure of researchers to disclose research resources and support provided by other organizations, including foreign entities and foreign governments; and
- threats to national security and economic competitiveness.
GW’s Efforts to Secure Research

Learn more about GW’s efforts to safeguard unauthorized access and sharing of intellectual property and confidential information, ensure appropriate use of federal funding, and comply with sponsor requirements.

- Watch videos on undue foreign influence considerations during various stages of the research lifecycle.
- Contact resinteg@gwu.edu for more information.
Research Safety

➢ **Biosafety, Radiation Safety, and Laser Safety**
  • The Office of Laboratory Safety (OLS) provides training, consultation, and services in the areas of biosafety, radiation safety, and laser safety.
  • OLS administers the Institutional Biosafety Committee (IBC) and the Radiation Safety Committee (RSC) including processes for protocol submission, review, and management.

➢ **Chemical Hygiene and Hazardous Waste**
  • The Office of Health & Safety provides training, consultation, and services in the areas of chemical safety and hazardous waste management.
Humans, Animals and Stem Cells in Research

➢ **Protection of Human Volunteers**
  • The Office of Human Research (OHR) provides guidance, education and oversight for the protection of human participants in research. It provides administrative support for GW Institutional Review Boards (IRBs).

➢ **Animal Care and Services**
  • Space, equipment and care for animals used for research and teaching purposes; training for PIs and research staff. Facilitates IACUC process for protocol submission, review, and management.

➢ **Stem Cells**
  • Research involving human pluripotent stem cells (hPSCs) is reviewed by the GW Institutional Stem Cell Research Oversight (ISCRO) Committee.
Shared Research Facilities and Other Support

➢ Core Facilities
  • Shared research facilities at GW include the GW Nanofabrication and Imaging Center and labs/centers that support biomedical research, among others.

➢ Clinical Research Office
  • Support for efficient execution and management of clinical research while ensuring the highest level of research participant safety.

➢ Libraries and Academic Innovation
  • Supporting teaching, learning, and research, including consultations for data management, ORCID iDs, and biosketches.

➢ Research Technology Services
  • High-performance computing, data storage, cloud/data infrastructure, and technology consultations, among other services.
Disclose Innovations / Launch a Venture

➢ **Disclose and Protect an Invention or Technology**
  Report inventions, software, research tools and other items developed through your research to the Technology Commercialization Office (TCO).

➢ **Licensing an Invention or Technology**
  TCO partners with companies to develop products based on GW's cutting-edge research.

➢ **Supporting Entrepreneurs**
  The Office of Innovation and Entrepreneurship provides programming around innovation, education, venture creation, and making connections.

➢ **I-Corps at GW**
  A National Science Foundation-funded program that provides real world, hands-on training and funding to translate innovations into successful products.
Publish and Promote Your Research

➢ Scholarly Writing
  • GW Libraries assists scholars with the research and publishing process.
  • Himmelfarb Health Sciences Library provides a guide to scholarly publishing.

➢ Research Communications
  • Work with the Communications and Marketing team to create research illustrations, promote your work, and publish op-eds.

➢ CREATE Digital Studio
  • Learn digital storytelling skills to communicate research and ideas.

➢ Faculty Research Awards
  • Nominate colleagues to be recognized for research contributions and mentorship.
Persistent Digital Identifier

**ORCID iD**

- ORCID provides a persistent digital identifier (an ORCID iD) that you own and control, and that distinguishes you from every other researcher.
- Connect your iD with your professional information — affiliations, grants, publications, peer review, and more.
- Use your iD to share your information with other systems, ensuring you get recognition for all your contributions, saving you time and hassle, and reducing the risk of errors.
- GW Libraries provides [support for setting up an ORCID iD](#)
Students & Trainees

➢ Engaging Undergraduates in Mentored Research
  • [GW Student Research Commons](#) is a one-stop resource for students to find research opportunities and events at GW and beyond. Postings include research jobs, internships and for-credit opportunities.
  • [Transcript Notation for Undergraduate Research Experiences](#)
  • [Faculty Guidance for Offering Research Internships](#)
  • [Center for Undergraduate Fellowships and Research](#)

➢ Student and Trainee Organizations
  • [GW Undergraduate Review](#)
  • [GW COMPASS](#) (Graduate students)
  • [GW Postdoc Association](#)
10 Tips for Successful Grantsmanship

1. Be novel, but not too novel
2. Include the appropriate background and preliminary data, as required
3. Identify the appropriate funding mechanism
4. Follow sponsor and GW guidelines carefully
5. Be concise, clear and complete
6. Reviewers are people, too
7. Planning: timing and internal review are important
8. Get to know the sponsor/agency grants officials
9. Become a grant reviewer early in your career
10. Accept rejection and deal with it appropriately

Excerpted from “Ten Simple Rules for Getting Grants”; PLOS Computational Biology; Philip E. Bourne and Leo M. Chalupa
https://www.ncbi.nlm.nih.gov/pmc/articles/PMC1378105/
10 Tips for a Successful Scholar

1. To fail to plan, is to plan to fail
2. Develop effective time management skills (make time for writing)
3. Learn to say “no”
4. Identify mentors and advocates early in your career
5. Keep a log of all your activities
6. Join the appropriate professional societies early
7. Network
8. Take full advantage of GW’s proximity to many resources, such as funding agencies, national labs, museums, etc.
9. Be inquisitive, ask questions
10. Don’t be afraid to ask for help, we all want you to be successful
University and School Research Events

- GW Research Showcase
- SEAS Research and Development Showcase
- School of Medicine and Health Sciences Research Day
- Milken Institute School of Public Health Research Day
- Technology Commercialization Office Events
- New Venture Competition
- Faculty Honors Ceremony
Contact Us

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OVPR Leadership
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OSP Helpdesks
Welcome to GW!