Office of Research Initiatives

Within the Office of the Executive Vice President for Research

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What We Do

Mission: To foster interdisciplinary research collaborations that span multiple schools, departments, centers/institutes, and campuses, and help PIs find funding for some collaborations.

Research Advancement

• Limited Submission Internal Competitions
• Research Initiatives in Science & Engineering (RISE)
• Center Grant Proposal Development
• Sponsor Analysis

Shared Resources

• Shared Research Computing Policy Advisory Committee (SRCPAC)
• Shared Nanotechnology Facilities Committee

Faculty Events

• Funder Campus Visits
• Training Workshops
• Information Sessions
• Faculty Networking Receptions
**Limited Submissions**

**Definition:** When an external funder limits the number of applications that the University may submit per competition year. ORI runs 80+ per year.
Center & Instrument Grants

Center Grants: Large proposals involving multiple PIs, departments, schools, etc., with potential funding for 3-5+ years. Strong administrative component (e.g. management plan, education plan, mentoring plan)

ORI Can Help!: Set Milestones, Gather Internal & External Commitment Letters, Communicate with Research Leadership, Production Editing, Connections with Internal Resources

Close coordination with Dean of Science, Associate Dean of Science and Planning, Office of Communications and Public Affairs, Columbia Technology Ventures, Office of Alumni and Development

NATIONAL SCIENCE FOUNDATION
- Science & Technology Centers
- Engineering Research Centers
- Major Research Instrumentation
- Research Traineeship
- Materials Research Science & Engineering Center
- Nanoscale Science & Engineering Centers
- Partnerships for International Research & Education

DEPARTMENTS of DEFENSE and ENERGY
- Energy Frontiers Research Centers
- Multidisciplinary University Research Initiative
- Defense University Research Instrumentation Program

NATIONAL INSTITUTES of HEALTH
- Shared Instrumentation Grants (S10)
- High-End Instrumentation Grants (S10)
- P30
- P50

COLUMBIA RESEARCH
Office of the Executive Vice President for Research
Research Initiatives in Science & Engineering

- Annual internal seed-funding competition for **discovery/basic research**
- Supports high-risk and high-impact research collaborations that cannot be funded through conventional means because 1) too early; or 2) too unorthodox
- Supports awardees with up to $80K for one year, with a possibility for a second year extension
- Rigorous internal peer review process (90+ senior faculty reviewers, two rounds)
- All basic science research eligible
- **Annual RISE Application Deadline:** Early-October
Research Computing

Habanero
The $2.1M cluster comprises 295 computer nodes, high speed interconnect, and a parallel storage server. One dozen nodes include GPU hardware accelerators. Habanero launched in Fall 2016, and expanded in Spring 2017. Trial-with-the-Intent-to-Purchase (TIP) program allows prospective users to test out the system.

Research Computing Executive Committee
Focuses on overall University needs and longer term planning.
Chair: Dr. G. Michael Purdy, Executive Vice President for Research

Shared Research Computing Policy Advisory Committee
Faculty-led committee focused on a variety of policy issues related to shared research computing on the Morningside campus.
Chair: Dr. Chris Marianetti, Associate Professor, Applied Physics & Applied Mathematics

Questions?
Contact CUIT’s Research Computing Services at rcs@columbia.edu
Events

To Help Faculty Better Engage Extramural Funders

Information Sessions
Hour-long presentations and question/answer sessions to analyze programmatic grantmaking histories, identify strategic opportunities for proposal development, meet potential collaborators, and seek staff support. *Past Examples:* MRI, RISE, Keck, PIRE, NRT.

Workshops
Half-day symposia including panel presentations, outline of proposal components, and interactions with past winners. *Past Examples:* NSF CAREER.

Funder Visits
Full-day campus visits by extramural funders, including individual and group meetings and presentations, Town Halls, and poster sessions. *Past Examples:* NSF Engineering Research Center, NSF Mathematical & Physical Sciences Directorate, DARPA, DOD Army Research Lab, DOD.

Networking Socials
Cocktail receptions for all Columbia researchers, designed to facilitate introductions and promote intercampus connectivity. *Prime Example:* Research Social Hour (Every Semester)
Contact Us
We Want to Hear From You!

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