Introduction to Pitt Research:
Support for researchers in the Humanities, Arts, Social Sciences and Related Fields
Who We Are:

Five units designed to provide full breadth of the research enterprise
Pitt Research Offices

- Office of Research Protections
- Office of Sponsored Programs
- Office of Research Computing
- Office of Innovation and Entrepreneurship
- Office of Trade Compliance

www.research.pitt.edu
PittResearch Responsibilities:

• Facilitate research of impact
• Identify and catalyze strategic opportunities
• Position Pitt to lead large research collaborations
• Translate scholarly excellence into commercial innovation and economic partnership
• Maintain the highest standards of research integrity
Senior Vice Chancellor for Research Staff

Rob A. Rutenbar
Senior Vice Chancellor for Research

N. John Cooper
Deputy Senior Vice Chancellor for Research

Michelle Amato
Chief of Staff

Michael Holland
Vice Chancellor for Science Policy and Research Strategies
Assistant Vice Chancellor for the Humanities, Arts, Social Sciences and Related Fields

Shelome Gooden, PhD
**Sponsored Programs**

- Promotes and secures sponsored research funding
- Reviews, negotiates, provides oversight

Jennifer E. Woodward, PhD  
Vice Chancellor for Sponsored Programs and Research Operations

**Research Protections**

- Oversees and supports on:
  - Ethical research practices
  - Complex regulatory network
  - Basic, animal, human subjects
  - Conflict of interest

George A. Huber  
Vice Chancellor for Research Protections
Trade Compliance

- Compliance with export controls regulations
- Risk assessment, regulatory interpretation, trainings

Research Computing

- Focus on increasing productivity of Pitt researchers through the application of advanced computing

Allen DiPalma
Director of Office of Trade Compliance

Ralph Roskies
Vice Chancellor for Research Computing
Innovation / Entrepreneurship

- Whole innovation pipeline:
  - Mentoring, facilitation and support for innovators
  - Consulting, education, and networking in SW PA
- Interconnected innovation ecosystem and education via technology, commercialization, and entrepreneurship

Evan Facher
Vice Chancellor for Innovation and Entrepreneurship
A closer look...
https://www.osp.pitt.edu/
The Research Development Team is responsible for:

- strategically advancing the University’s research goals,
- communicating research opportunities, and
- enhancing research collaboration and team science.
• Funding workshop series
  • Register now for Fall 2020
• Prestigious awards & nominations
• Multidisciplinary teamings
• Group consultations

Ryan Champagne
Assistant Director for Research Development
rkc12@pitt.edu
Consultation bookings

Bradley Pollock
Research Development Funding Specialist
bcp27@pitt.edu
Consultation bookings

• Limited submissions
• Funding discovery
• Funding communication
• Individual consultations
Finding Funding

Pivot Funding Database
Competition Space Internal & Limited Submission Funding

Weekly funding updates
RD Events Calendar Workshops & webinars
Pivot: Funding Opportunity Database

- 30K+ funding opportunities
- All disciplines, career stages
- Weekly search results
- Prioritized alerts
- Account required
- Subscription service
- Workshops

https://www.osp.pitt.edu/external-funding-resources
**Competition Space: Internal Applications**

- **Limited Submission opportunities**
  - Funder restricts number of applications
  - Early stage “lite” version of project
  - Pitt Research endorses institutional applicant
  - [https://www.osp.pitt.edu/limited-submissions-process](https://www.osp.pitt.edu/limited-submissions-process)

- **Internal Funding Mechanisms**
  - Pitt Research – Momentum Funds (fall)
  - Chancellor – Pitt Seed Projects (spring)
  - New programs annually
  - [https://www.osp.pitt.edu/internal-funding-opportunities](https://www.osp.pitt.edu/internal-funding-opportunities)

- Log in via MyPitt to apply
RD Calendar: Pitt Workshops & Funder Events

- Interactive events with funders
- Recorded webinars
- Weekly Pivot sessions each term
- Individual and group consultations
- Workshop series for grant writing
  - Varies each term
  - Federal sponsor-focused
  - [https://www.osp.pitt.edu/finding-funding-workshops](https://www.osp.pitt.edu/finding-funding-workshops)
Newsletters & Tweets

- Seven weekly newsletters
- High-level disciplinary focus
- Curated for eligibility
- Special program releases
- Limited submission announcements
- Event registrations
- @PittGrantsDev
- grantdev@pitt.edu for newsletter(s)
If it's too big for your laptop, it's big data.

Ralph Roskies, PhD
Vice Chancellor for Research Computing

Shawn Brown
Director of Pittsburgh Supercomputing Center
CRC collaborates with Pitt Network Operations Center (NOC)

CRC is supported by the facilities and professional resource management and technical expertise provided by consultants at the NOC.

Pitt CRC consultants with NOC staff at a Pittsburgh Penguins versus Vancouver Canucks game. From left, Sasha Kessler, Barry Moore II, Troy Caro, Shervin Sammak, and Jeff Raymond.
CRC Mission

The mission of CRC is to increase the research productivity of all Pitt faculty through advanced computing.

• Access to cutting-edge computer hardware and software for enabling transformative research.

• Free training workshops and lectures
  • Online Fall 2020 workshops begin in September. Topics will include: Deep Learning with Pytorch, Intro to Python, Intro to Pandas, Intro to R, and Advanced R, Ab-initio Simulation, and Advanced Ab-initio Simulation.
CRC Mission, cont.

• Extended personalized consultation.
• Support for research in fields across the university community
Learning tools for cutting-edge teaching

CRC high-performance computing resources also help improve teaching.

CRC consultants serve as resources for faculty members to explore new methods to enrich student learning while preparing them for careers.

"Teaching and learning enhance CRC’s computing research mission. We play a role in helping grow the research community from the ground up."

- Barry Moore II, PhD
  Research Assistant Professor
  Center for Research Computing
• University faculty have free access to CRC resources via a streamlined submission and proposal process.
  • Request an account at: https://crc.pitt.edu/apply
• Each faculty member is automatically eligible for 10,000 computing hours (or service units) on CRC computer clusters.
• What does 10,000 service units mean?
  • roughly the equivalent of running your laptop 24/7 for a year, and the laptop never crashing.
Where to find CRC?

- Consultants are usually available 9am to 5pm.
- Contact the team using Help Tickets at crc.pitt.edu/UserSupport or call 412-648-3094.
• Compliance with Export Controls Regulations
• Academic Visitor Process
• Imports
• Drones

Find us at: www.tradecompliance.pitt.edu
Contact us: TradeCompliance@pitt.edu

Allen DiPalma
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Devin Boyles
Biological Import Specialist
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Charles Lyon
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lyoncw@pitt.edu
What are export controls?

- Export laws that regulate the shipment, transfer or disclosure of controlled items, technical data and software to foreign countries or to foreign persons and entities within the U.S.
- U.S. export controls aim at protecting the national security, economic interests and foreign policy of the United States.
- Fun fact: Export Control Act (July 5th 1940)
*An export that occurs inside the United States (e.g. during an in-person, email, or telephone conversation with a foreign national colleague, during a demonstration to a foreign national, of equipment in our labs or classrooms, in a paper written or an article published and subsequently made available to a foreign national, during a foreign national’s review of an owner’s manual for a device) is called a Deemed Export.
Examples of Export Controlled Items

Voice and video recorders

Mobile phones

Computers

Magnetometers, gradiometers, electric field sensors

Drones

Software source code

Theodolites and transits

Biological pathogens & toxins

EBOLA
Export Controls High Risk Areas

- Research involving:
  - High tech equipment and software (e.g. encrypted databases, data analytics, speech recognition, modeling & simulation)
  - Restricted Parties (government watch lists)
  - Restrictions from the sponsor (e.g. publication or use of foreign nationals)
  - Controlled information
  - Embargoed countries/regions (i.e. Syria, Cuba, Iran, North Korea, Crimea)
  - Biologicals/chemicals (import or export)
  - Collaborators outside of the U.S.

- On-campus research operations are often exempt from export controls as long as information is in public domain and research results are publishable.
Other Areas Intersecting with Export Controls

- **International Travel**
  - What are you taking?
  - Where are you going?
  - With whom are you collaborating?
  - Use Concur [https://pext.pitt.edu/concur/](https://pext.pitt.edu/concur/)

- **International Shipments**
  - Use University ProShip system for automatic export screenings
  - [https://www.pts.pitt.edu/mailing-services/mail/express-mail](https://www.pts.pitt.edu/mailing-services/mail/express-mail)

- **Academic Visitors**
  - See [www.visitor.pitt.edu](http://www.visitor.pitt.edu)

- **Procurement**
  - Items values over $10,000
  - [https://cfo.pitt.edu/pexpress/purchases/exports_intnlsxns.php](https://cfo.pitt.edu/pexpress/purchases/exports_intnlsxns.php)
Highlights of Pitt Research Activities 2020
Inward-Facing Operations: FY19

Research Protections
• 1,814 IRB protocol submissions
• 4,409 animal protocols
• 1,441 ClinicalTrials.gov studies
• 109 consulting partnerships

Sponsored Programs
• 3,901 funding proposals submitted
• 1,974 new project awards received
• Spent more than $860M in research
• $502+ million NIH funding
• In top five in funding from NIH
External-Facing Operations

External Partnerships
- McGowan partners with International Space Station Lab

Innovation Institute
- 162 agreements executed to transfer tech from research
- 367 invention disclosures, setting new Pitt record
- 91 US patents issued
- 17 new companies spun out from technologies developed on campus
Analytics on Research Enterprise

FY15-FY19 Research Expenditures

<table>
<thead>
<tr>
<th>Year</th>
<th>Dollars</th>
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<tr>
<td>FY15</td>
<td>$711M</td>
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<td>FY18</td>
<td>$807M</td>
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<tr>
<td>FY19</td>
<td>$860M</td>
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Policy Refresh

Intellectual Property Policy
- Patent, copyright, works of scholarship
- Committee clarifying ownership landscape

Consulting Policy
- External activities and outside commitments (paid & non-paid)
- New/streamlined COI forms
International Engagement

“As a public institution, we will continue to uphold all laws governing research, innovation and international partnerships while fostering a vibrant and globally engaged university.” July 22, 2019.

-- Pitt Chancellor Patrick Gallagher

• Lots of concern in federal ecosystem
• Our job: educate and institutionalize
## Team-Based Research

**Concern: Few “Big Science” Awards at Pitt**

<table>
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<tr>
<th>Fiscal Year</th>
<th>Small</th>
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<tbody>
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<td>FY 2017</td>
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<td>FY 2018</td>
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**Median Number of PIs per Proposal**

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<th>Grant Size</th>
<th>Small</th>
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<td>FY 2013</td>
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<td>FY 2018</td>
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**Response: Big Proposal Boot Camp**

- Team building and corporate partners
- Evaluating and mentoring for large scale

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*PittResearch*
Pitt Momentum Funds

- **Seeding Grants** support significant and innovative scholarship by individual or groups of faculty at all ranks
  - Up to $16,000 for one year, with $2K supplement for undergraduate research participation
  - Four tracks: Creative arts & Humanities; Engineering, Natural sciences & Math; Health & life; Social sciences, which includes Business, Policy, Law, Education, Informatics, and Social Work

- **Teaming Grants** support the planning and capacity-building stages for multidisciplinary team project to successfully pursue large-scale external funding.
  - Up to $60,000 for one year

- **Scaling Grants** support the detailed project planning, gathering of proof-of-concept results, and reducing technical risk so that teams can competitively pursue large, complex, extramural funding.
  - Up to $400,000 for two years
Eligibility

• Current Pitt faculty with an appointment that includes research responsibilities
• Teams comprised of faculty representing 3 different schools
• New and nascent collaborations
Investing in connection, collaboration and discovery
Positioning the Pitt community for maximum impact in research, scholarship and creative endeavors

FUELING OUR FUTURE.
The First Internal Funding Showcase
February 24, 2020
1 p.m. to 6:30 p.m.
Connolly Ballroom, Alumni Hall
Sponsored by the Office of the Provost and the Office of the Senior Vice Chancellor for Research

Learn more and RSVP at pi.tt/fundingshowcase
Thank you!