Research at the University of Pittsburgh

Humanities, Arts, Social Sciences and Related Fields

July 21, 2021

Shelome Gooden
sgooden@pitt.edu
Assistant Vice Chancellor for Research
Who we are

“The Office of the Senior Vice Chancellor for Research”
PittResearch Leadership

Rob A. Rutenbar
Senior Vice Chancellor for Research

Michael Holland
VC for Science Policy and Research Strategies

Robert Cunningham
VC for Research Infrastructure

Michelle Amato
Chief of Staff

Shelome Gooden
Asst VC for Humanities, Arts, Soc Science, Related Fields

Rory Cooper
Asst VC for STEM & Health Science Collaboration
PittResearch Offices

Bill Yates
Vice Chancellor

Jennifer Woodward
Vice Chancellor

Shawn Brown
Vice Chancellor
PSC Director

Evan Facher
Vice Chancellor

New

www.research.pitt.edu
Humanities Arts Social Sciences and Related Fields

- A broad range of areas
- Different research needs
PittResearch: A closer look

• What we do

• Our strategic priorities
Pitt Research: Focus Priorities

1. Team science
2. Policy ecosystem
3. Startups & industry partnering
4. Foreign influence
5. Outreach to Research at Key Intersections
Office of Research Protections

• Assures Pitt research conduct is ethical & legal
• Reviews research proposals (protocols) to assure compliance with all relevant federal and state laws
• Assures investigators are trained for research conduct
• Inspects/audits labs & studies for standards compliance
Office of Research Protections: Units

Newly merged into ORP
Regulatory Oversight via Faculty Cmtes

**ORP Committee**
- Institutional Review Board (IRB)
- Inst. Animal Care and Use Cmte (IACUC)
- Institutional Biosafety Cmte (IBC)
- Conflict of Interest Cmte (COIC)

**Areas of Oversight**
- Human Subject Research
- Animal Research
- Recombinant DNA Research
- COI Management

(PittPRO) Pittsburgh Protocol Review Online
2. Pitt Policy Ecosystem Updates

- **Conflict of Interest (COI)**: Complete
- **Intellectual Property (IP)**: Complete
- **Outside Activities (Consulting)**: 1st Draft
- **Licensing Human Subject Samples/Data**: Starting
Manage Conflict of Interest Disclosure

• Prior to 2020: Paper COI form; wet signature; not searchable
• New in 2020: Unified web disclosure for Pitt & UPMC
• COI Mgt Today: Disclosure at hire, annually by April 15, and within 30 days of a new activity
New Challenge: Foreign Influence

• Funding agencies and governments’ rising concerns about IP

• Expanding mandates to disclose foreign engagements

• We update MyDisclosures questions annually to track these changes

April 2021:

Universities fight scrutiny of foreign funding in Senate China bill

Under the initial bipartisan proposals, universities would face national security reviews of some of their foreign transactions.

AP Photo/J. Scott Applewhite

https://www.politico.com/news/2021/05/27/universities-foreign-funding-china-491239
Trade Compliance: Export Control

- 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.

- Export Control Act (July 5th 1940)
Examples of Export Controlled Items

- Voice and video recorders
- Mobile phones
- Computers
- Software source code
- Magnetometers, gradiometers, electric field sensors
- Theodolites and transits
- Drones
- Biological pathogens & toxins
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/

• International Shipments
  • Use University ProShip system for automatic export screenings
  • https://www.pts.pitt.edu/mailing-services/mail/express-mail

• Academic Visitors
  • See www.visitor.pitt.edu

• Procurement
  • Items values over $10,000
  • https://cfo.pitt.edu/pexpress/purchases/exports_intnlsxns.php
Connect with ORP

- Jumpstart your research
- Custom onboarding for new investigators to discuss regulatory requirements (sign up here)
- Workshops (see flyer)

- General questions and training.
  Fill out Form

- IRB specific questions
  askirb@pitt.edu
Office of Sponsored Programs

- **Manages** research awards: contracts and grants, federal, industry, and gov’t; fee-for-service work with research cores
- **Reviews** proposals for standards compliance, **submits** on behalf of Pitt
- **Negotiates** legal, contractual, IP, etc terms for all new awards
- **Curates & share opportunities** for awards and honors across campus
- **Assist with faculty to help develop new, larger** research proposals

https://www.osp.pitt.edu/
OSP Review Functions

• New federal compliance changes
  • Other Support, foreign engagements, data/network security

• Issues of “completeness”, including:
  • Review against sponsor guidelines, University policies
  • Budget review (correct rates, caps, etc.); budget matches justification
  • Ensure all attachments are allowable (eg: NIH disallows appendices)
  • Restricted Party Screening, as applicable
  • Appropriate approvals & documentation from external collaborators
  • Internal compliance checks (ex: RBL approval before proposal submit)
  • Terms & Conditions (Ts&Cs) that must be accepted at time of proposal
National Support Ecosystem

US Federal

National Science Foundation

Philanthropic

NATIONAL ENDOWMENT FOR THE HUMANITIES

BILL & MELINDA GATES FOUNDATION

FULBRIGHT ASSOCIATION

NIH National Institutes of Health
Office of Behavioral and Social Sciences Research

THE HEINZ ENDOWMENTS

Howard Heinz Endowment
Vira I. Heinz Endowment
PERIS: a Pre-award IT System

Submit new proposals & manage them
Research Development Team

• Responsible for
  • strategically advancing the University’s research goals,
  • communicating research opportunities,
  • enhancing research collaboration and team science.

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

Group Consultation bookings

Bradley Pollock
Research Development Funding Specialist
bcp27@pitt.edu

Individual Consultation bookings
Research Development Team

• Funding workshop series
  • Going on now (Fall 2021)

• Prestigious awards & nominations
  • Planning resources

• Multidisciplinary teamings
  • Momentum Funds

• Limited submissions
  • Competition Space

• Funding discovery
  • External funding tracking

• Funding communication
  • Weekly updates
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](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

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

- Log in via MyPitt.edu to apply
Plan Ahead for Competitive Funding

interactive search tool

Pitt Research
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
Connect: Newsletters & Tweets

@PittGrantsDev

- Seven weekly newsletters
  - grantdev@pitt.edu for newsletter(s)
- High-level disciplinary focus
- Curated for eligibility
- Special program releases
- Limited submission announcements
- Event registrations
Office of Research Computing

- Provides **advanced computing platforms** to Pitt researchers
- **Expert advising** on technical, science applications
- **Computing & storage** solutions
- **Broad**: Hardware, software, services; on-premise platforms, cloud platforms

*If it's too big for your laptop, it's big data!*
Research Computing: Resources

PSC
- Supercomputers: Bridges2
  - 72,000+ cores
  - 128,000+ GB memory
  - 40,000+ CUDA GPU cores
- Accelerators
  - Anton – Molecular dynamics
  - Cerebras – AI
- Consulting, training & hosting services @ PSC

Pitt CRC
- HPC:
  - 10,000 cores
  - GPU – w/ big additions in AY21
- Bioinformatics core
  - Successful NIH S10 proposal will dramatically upsize AY21
- Consulting, training & hosting services @ Pitt with Pitt IT
CRC Mission

• To increase the research productivity of all Pitt faculty through advanced computing

• Free access to cutting-edge computer hardware and software and hosting services for enabling transformative research.

  • Request an account: https://crc.pitt.edu/apply

  • Each faculty member is automatically eligible for 10,000 computing hours (or service units) on CRC computer clusters.

    • roughly equivalent to running your laptop 24/7 for a year, and the laptop never crashing.
CRC Mission cont.

• Free training workshops and lectures
  • Topics include: Effective Computing Cluster Usage, Deep Learning with Pytorch, Intro to Python, Intro to Pandas, Intro to R, and Advanced R.

• Extended personalized consultation
  • Consultants are available 9am to 5pm. 312 Schenley Place 4420 Bayard Street
  • Contact the team using Help Tickets at crc.pitt.edu/UserSupport or call 412-648-3094.

• 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, CRC
Office of Innovation & Entrepreneurship

• Manages intellectual property (IP): patents, copyrights, trademarks, licensing

• Supports innovation pipeline: students, faculty, startups, incubation

• Manages new Chancellor’s Gap Fund for startups

• Manages industry partnering and economic development

• Supports small business services
## Innov & Entrepreneurship: Numbers

<table>
<thead>
<tr>
<th>Category</th>
<th>FY16-20 vs FY11-15</th>
<th>Recent AUTM Pitt Rank</th>
</tr>
</thead>
<tbody>
<tr>
<td>Invention Disclosures</td>
<td>+26%</td>
<td>#16</td>
</tr>
<tr>
<td>Patent Applications</td>
<td>+66%</td>
<td>#21</td>
</tr>
<tr>
<td>Transactions (Licenses, etc.)</td>
<td>+10%</td>
<td>#12</td>
</tr>
<tr>
<td>Startups</td>
<td>+124%</td>
<td>#13</td>
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AUTM = Assoc. of University Tech Managers
PittResearch: Focus Priorities

1. Team science
2. Policy ecosystem
3. Startups & industry partnering
4. Foreign influence
5. Outreach to Research at Key Intersections
1. Fed R&D Funding Pivoting to Teams

Collaborations matter especially for large $$

Team Size vs #Proposals @ PITT

1 to 4: 4,967
5 to 9: 1,136
10+: 82

Data Source: Office of Sponsored Programs, FY18-20
1. Tracking Pitt Award/Collab Network

Dot = PI
Edge = Proposal

Data Source: Office of Sponsored Programs, FY18-20
1. Pitt Research: Team Science Investment

• Big Proposal Bootcamp
  • Train faculty how to effectively to “go big”
  • Team building and corporate partners
  • Evaluating and mentoring for large scale

• Pitt Momentum Funds
  • First strategic ramp of investment, seed, to team, to large center

<table>
<thead>
<tr>
<th>$0</th>
<th>$1M</th>
<th>$2M</th>
<th>$3M</th>
<th>$4M</th>
<th>$5M</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Seeding</em></td>
<td><em>Teaming</em></td>
<td><em>Scaling</em></td>
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</tbody>
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2020 Momentum Funds Awarded vs. Declined ($M)
1. 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
5. Opportunities at Research Intersections

- **Leadership** to focus on opportunities at intersections of Pitt’s strengths, disciplines, organizational units

**Prof. Shelome Gooden**
Asst Vice Chancellor for Research in Arts, Humanities, Social Sciences and Related Professional Fields

**Prof. Rory Cooper**
Asst Vice Chancellor for Research for STEM – Health Sciences Collaborations
Initiatives: Funding Curation

**SBE:** Social Behavioral & Economic Sciences

Trans-Atlantic Platform
Recovery, Renewal, and Resilience in a Post-Pandemic World

**Awards:** $1M for 5-6 awards

**NATIONAL ENDOowment for the ARTS**

First Phase of American Rescue Plan Funding from the National Endowment for the Arts Announced

**Awards:** $135M
Initiatives: Connecting Across Pitt

• Big Data + AI: Disruption
  • Challenging all fields and disciplines
  • Especially Humanities & Social Sciences

• We partnered with PittIT + Google
  • Pitt early adopters in Humanities & Social Sciences
  • Brokered cloud credits
  • Launched pilot research projects
Thanks!