Research Development:
Collaboration Strategy Session

NU-RES Conference | June 8, 2022

Central RD: Kim Holloway, Liz Allen

COS RD: Vance Blankers

Khoury RD: Andrea Stith

Bouvé RD: Melinda Boehm

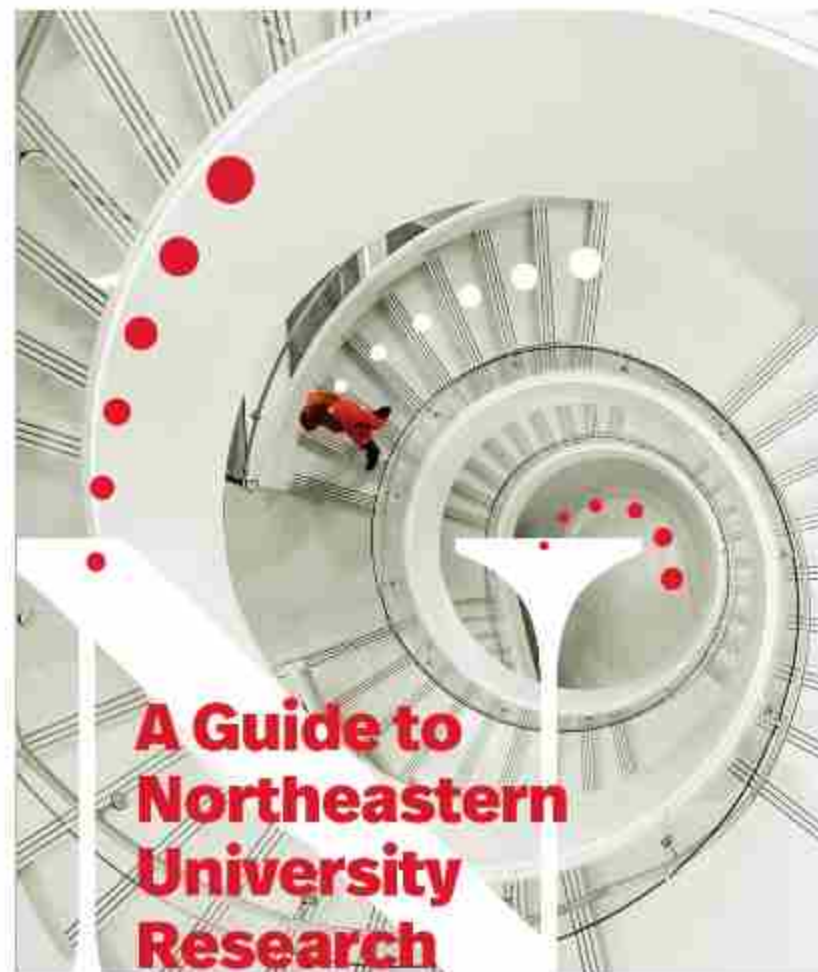CAMD RD: Katherine Calzada

COE RD: Mariah Nobrega

NORTHEASTERN •

What is Research Development?

"Research-development professionals occupy a unique and valuable role in the academic enterprise. We journey through the campus, traversing it daily in small exploratory ventures or large expeditions, helping people formulate and finance their research and doing what we can to make things a success."
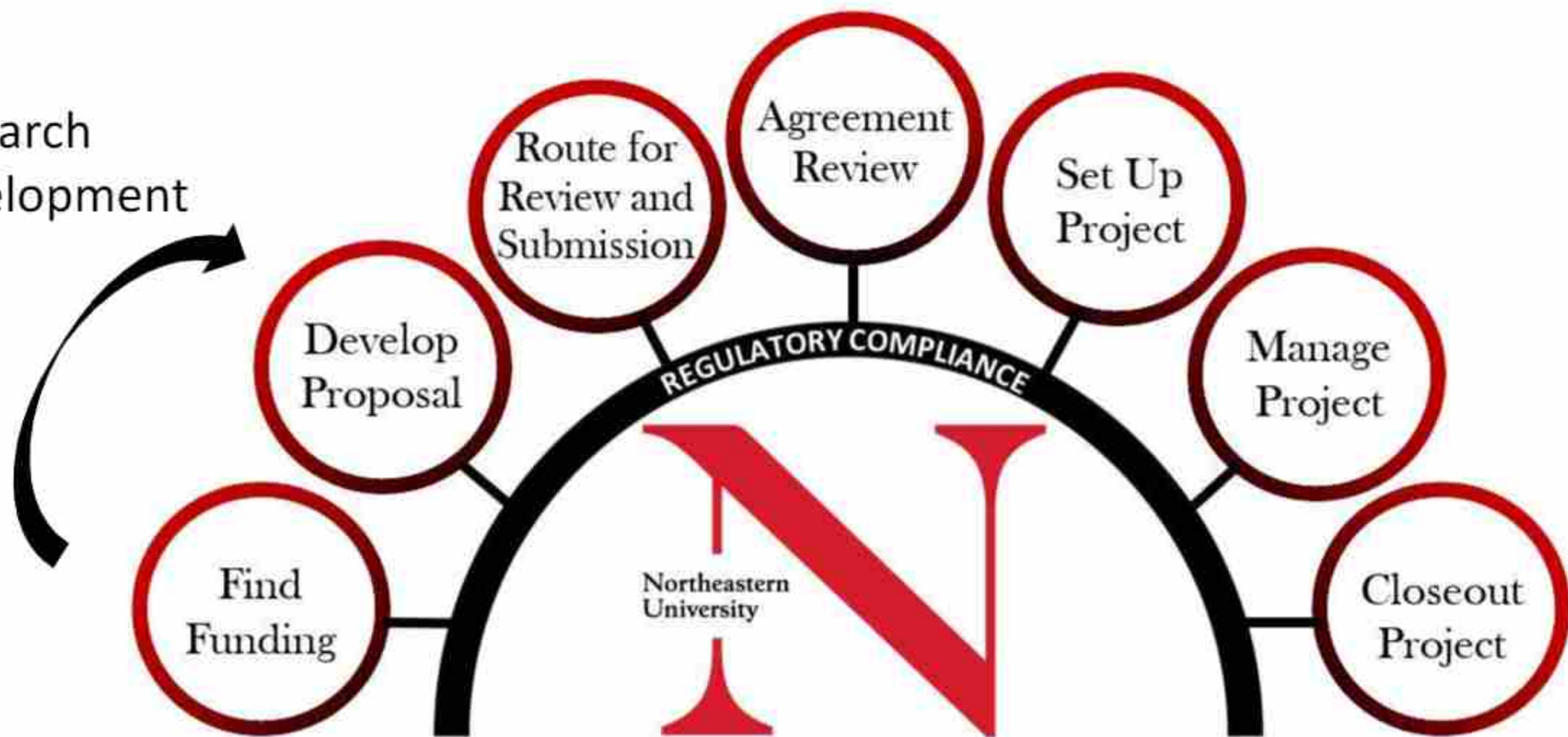
Jacob Levin

Chronicle of Higher Ed.

A Guide to Northeastern University Research

What is Research Development?

Research Development: NU Team

Northeastern University

Research Division (Central)

Kim Holloway, Ph.D.   Karen Drew   Zac Perry, Ph.D.   Liz Allen, Ph.D.   Trish Curtin   Jenna Horan

College of
Arts, Media & Design   College of
Engineering   College of
Engineering   College of Science   Khoury College of
Computer Science   Bouvé College of
Health Sciences

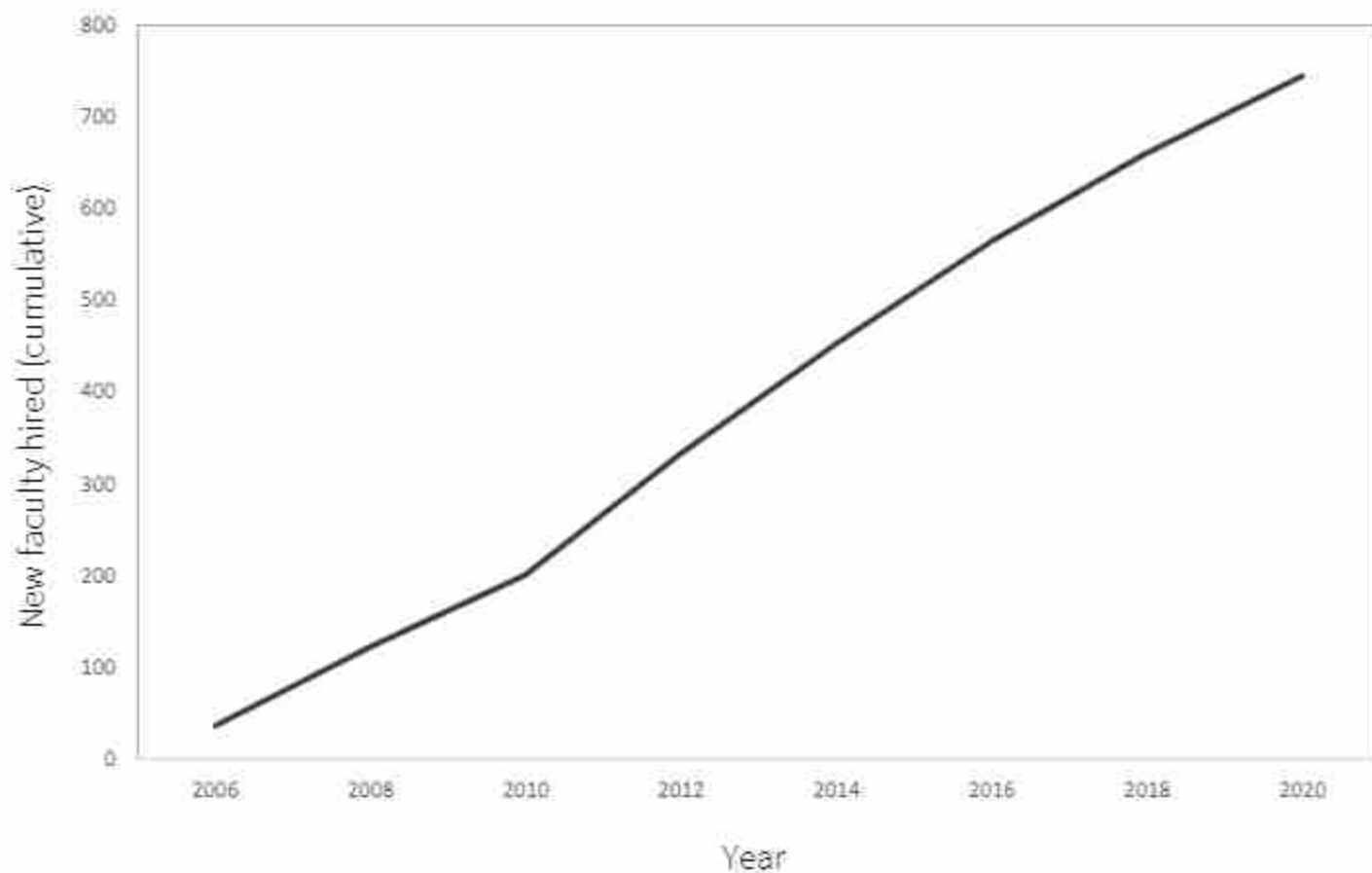Katherine Calzada   Mariah Nobrega   Jessica Chace, Ph.D.   Vance Blankers, Ph.D.   Andrea Stith, Ph.D.   Melinda Boehm, Ph.D.

Northeastern Research Growth 2001-2021

Northeastern's strategic vision and investments over the ten years 2001-2011 elevated the university to R1 status, and built upon Northeastern's unprecedented momentum, including continued investments in research and faculty recruitment, record-high student applications, and its historic fundraising campaign.

Notable research award successes

NSF INCLUDES - $10M

Broadening participation from BIPOC communities

Reid, Silevitch, Duggan, Harris

Mass. Life Sciences Collaborative- $1.4M

Delivery of Nucleic Acid Therapeutics using MIND

Amiji in partnership with Ely Lilly & Mass Eye and Ear Infirmary

NSF CAREER – Early Career Award Program

11 new awards with a 37% success rate (most at any institution in MA, ranked in top 10 nationwide)

Plus 4 existing awards transferred in with new faculty recruitments

WT Grant Foundation - $650k

Building a More Holistic and Inclusive Workforce Development System for Boston's Youth

Sasser-Modestino in partnership with City of Boston Department of Youth Engagement and Employment

US Army Corps of Engineers- $7.7M

Advanced Terrain Analytics to Support Tactical Scale Planning and Operations Over Varied Environments in support of the U.S. Army Engineer Research and Development Center - Geospatial Research Laboratory

Robinson, Ganguly, Singh, Hand, Lin, Ioannidis, Chowdhury, Padir

Research Development

Northeastern University

Funding Opportunities

Researcher Positioning & Teaming

Early Career Faculty Programming

Limited Submissions
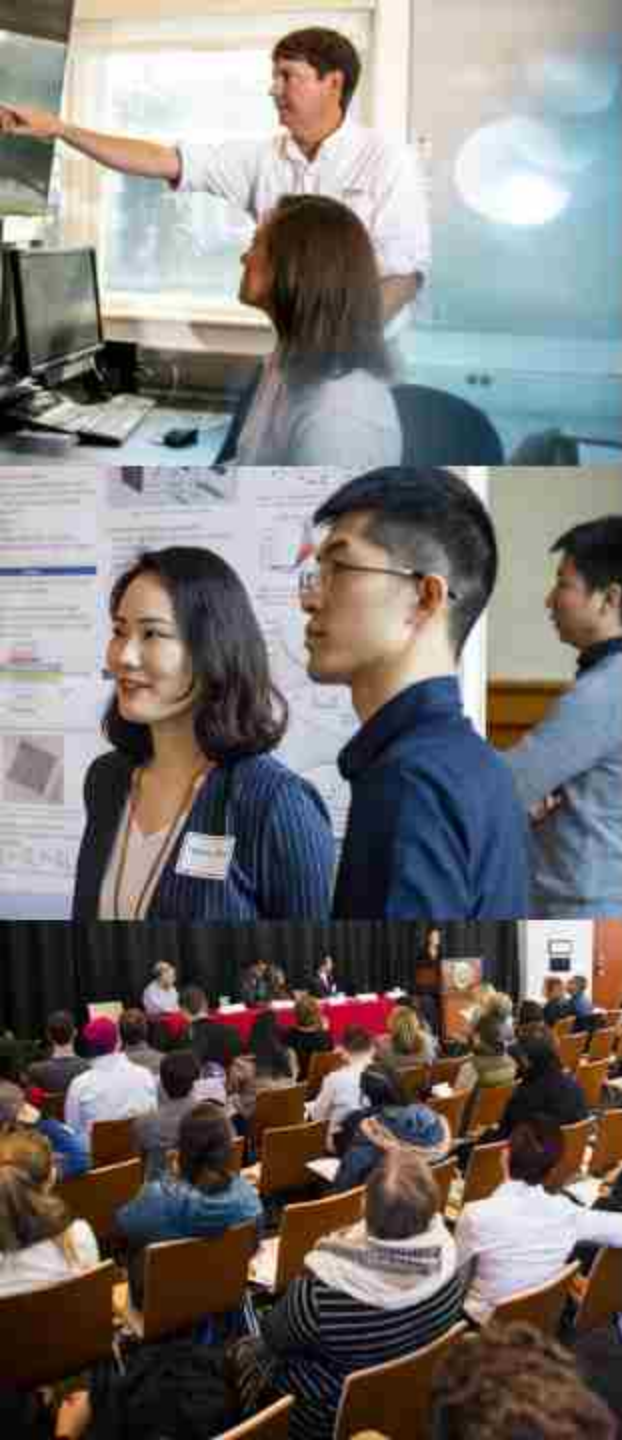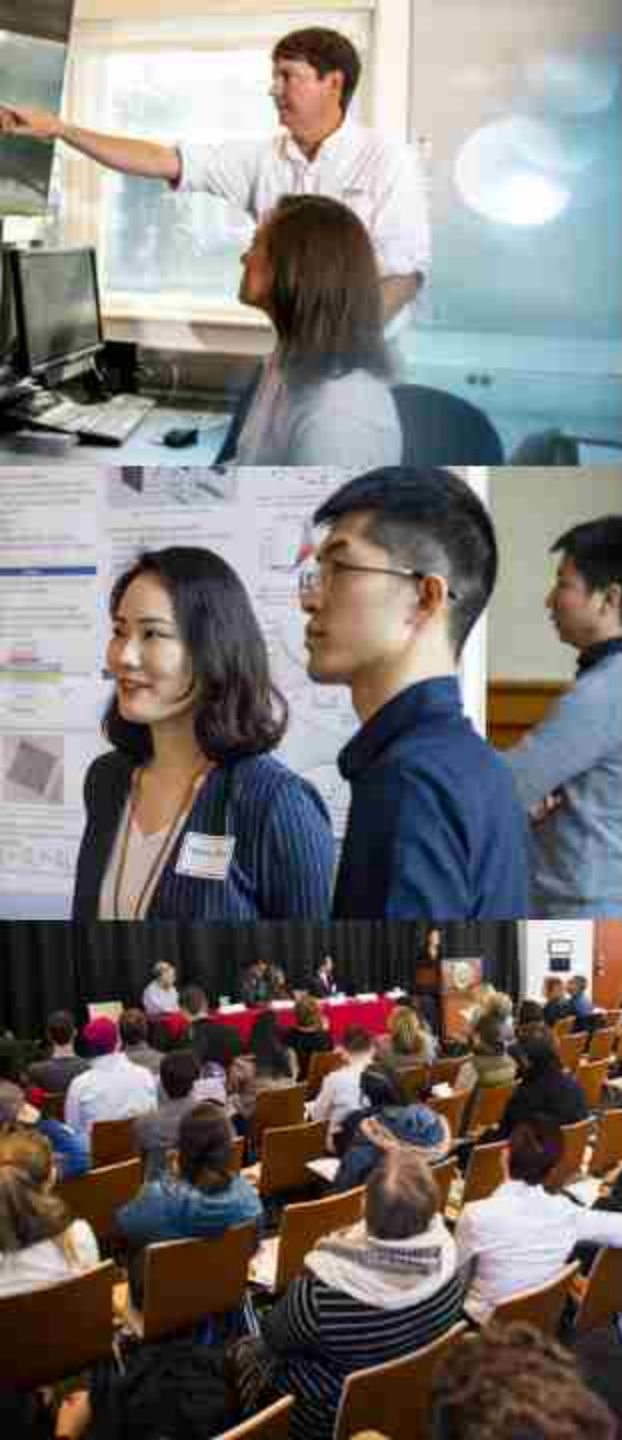
Center-scale programs

Proposal Development

External funding

We identify and curate funding opportunities:

1. The Research Development Funding Opportunity Announcement (FOA) site

   resdev.northeastern.edu/funding-announcement/#/

2. Pivot Database

   pivot.proquest.com/funding

3. Academic Analytics Faculty Insight

   provost.northeastern.edu/uds/data-access/acan/

4. Additional Resources include Foundation Directory Online & Philanthropy News Digest email alerts

Internal funding

Research Development administers a variety of internal grant programs:

- TIER 1 Award Program (15-month awards, yearly submission cycle)
- TIER 2 Award Program (rolling basis)
- TIER 3 Award Program (rolling basis)
- NU/Dana Farber Cancer Institute Awards (12-month awards, biannual submission cycle)
- Roux/UMaine seed grant program
- NU/WHOI seed grant program

Additionally, Northeastern has several College-level internal funding programs

Internal funding: Impact Engines

A new model for 21st century problem solving

- Key pillar of the Northeastern's Academic Plan
- Positions Northeastern as a leader in research with broad societal impact
- Fosters interdisciplinary learning, research, and partnerships to address challenges with the goal of maximum impact
- Spans and connects diverse disciplines, colleges, campuses, industry sectors, and communities around problem solving

Limited Submissions

- When an opportunity is "limited" it means the sponsor places a limit on the number of proposals each institution may submit

- ResDev administers the limited submissions review and approval process for the SVPR

- Verify that faculty submitting to limited programs have institutional approval

- If you become aware of a funding opportunity with limited submission requirements that is not listed, contact us at: limitedsubmissions@northeastern.edu

Limited Submissions, con't

Funding Announcements

ACTIVE ARCHIVE

Subjects >
(Clear) Award Types >
Sponsors ⌄
  ■ ARPA-E
  ■ Corporations
  ■ Federal Funders ⊕
  ■ Foundations
  ■ Inter-Institutional Consortiums
  ■ Internal Awards (NU)
  ■ International
  ■ State (MA) Grants

20 Results Type: Limited Submission

SORT BY DEADLINE ↑ SORT BY POST DATE

IUSE Professional Formation of Engineers: Revolutionizing Engineering Departments (IUSE/PFE: RED)
NSF - National Science Foundation
Limited Submission Training Grants
• Due Date: 05/31/2022

U.S. Embassy Abuja PAS Annual Program Statement (Internal Still Open)
DOS - Department of State
International Limited Submission
• Due Date: 05/31/2022

Mallinckrodt Grants
Foundations
Career Development Awards Limited Submission
• Due Date: 06/01/2022

Partnerships for Innovation (PFI) July 2022
NSF - National Science Foundation
Limited Submission Technology Development
• Due Date: 06/01/2022

We facilitate team science

- Build topical teams
- Convene research workshops with industry partners
- Promote collaboration with extramural partners (e.g., WHOI, UMaine, UMASS)
- Participate in working groups
- Advise faculty about collaboration opportunities

Large Proposal Development

For Large, Complex, and Highly Visible Proposals:

1. Organize an internal kickoff meeting to discuss administrative support (Timeline, FOA Breakdown, etc.)

2. Facilitate team organization and meetings

3. Advise on internal TIER program support

4. Provide additional support in coordination with broader university and college resources

5. Convene faculty around major submission opportunities, both current and anticipated

6. Coordinate assistance for major proposals, sometimes in conjunction with TIER 2 consultants

Early Career Support

Early Career Faculty Programming

- Curation and targeted dissemination of early career opportunities (many of which are non-federal and involve Corporation/Foundation Advancement)

- New faculty meetings to discuss research goals and introduce RD, Advancement and other potential resources/collaborators

- NSF CAREER Awards: Training sessions and coordinated review process for submissions

Support for proposal development

- We work closely with faculty and research admin colleagues to prepare proposals

- Support can include editing and/or project management

- Advise faculty on meeting with program officers

- Coordinate with Research Admin professionals to support teams in developing budgets, tracking and developing all supplemental documents and required letters, etc.

- Developing guides and boilerplate draft documents that faculty can download, edit, and use in proposals

Resource Repository for Proposal Development

Access materials and information to craft successful proposals

The Research Development Resource Repository in SharePoint contains detailed descriptions of university resources, facilities and institutes. Northeastern researchers may copy and paste information from these documents into proposals as appropriate. Additionally, the Resource Repository has funding agency-specific guidelines, proposal development guides, and training materials.

Agency Guidelines

Agency-specific guidelines and review criteria. Resources focusing on finding funding opportunities and developing proposals for NSF, NIH, DOD, and DOE are currently available.

Proposal Guides

Guidance about funding opportunities for early career researchers, center proposals, equipment grants, and training grants. *(coming soon)*

Shared Facilities

Detailed descriptions of core shared research facilties, including documentation of unique equipment and research capabilities.

Research Institutes

Information about major research institutes across Northeastern's global campuses to be used in research proposals.

Proposal Development Resources on our website: https://resdev.northeastern.edu/

Questions for Discussion

- When has effective communication among RD and RA professionals contributed to successful proposals and support for Northeastern's research enterprise?

- How can we more effectively coordinate in areas where there is overlap with RD & NU-RES/ Research Administration roles? (e.g., in the area of a solicitation shred or subaward communication)

- Are there areas where more education, additional resources, and/or better-defined processes would be helpful?

- Are there gaps we can address to provide more effective support to researchers?

Questions? Suggestions? New ideas?
Get in touch with us!

Email: resdev@northeastern.edu
Limited Submissions:
limitedsubmissions@northeastern.edu
Website:
https://resdev.northeastern.edu/