The University’s internal deadline for the limited submission competition for the National Science Foundation (NSF), National Science Foundation Research Traineeship (NRT) Program (NSF 14-542) 6/22/15. If you are interested, please read on for details.


- **Purpose**: The NSF Research Traineeship (NRT) program is designed to encourage the development and implementation of bold, new, potentially transformative, and scalable models for STEM graduate education training. The NRT program seeks proposals that ensure that graduate students in research-based master’s and doctoral degree programs develop the skills, knowledge, and competencies needed to pursue a range of STEM careers. The NRT program includes two tracks: the **Traineeship Track** and the **Innovations in Graduate Education (IGE) Track**. The **Traineeship Track** is dedicated to effective training of STEM graduate students in high priority interdisciplinary research areas, through the use of a comprehensive traineeship model that is innovative, evidence-based, aligned with changing workforce and research needs, and scalable. For this solicitation the Traineeship Track has one priority interdisciplinary research theme — Data-Enabled Science and Engineering (DESE); proposals are encouraged also on any non-DESE interdisciplinary research theme that is a national priority. The **IGE Track** is dedicated solely to piloting, testing, and evaluating novel, innovative, and potentially transformative approaches to graduate education, both disciplinary and interdisciplinary, to generate the knowledge required for their customization, implementation, and broader adoption. Whereas the Traineeship Track promotes building on the current knowledge base to more effectively train STEM graduate students, the IGE Track supports test-bed projects with high potential to enrich, improve, and extend the knowledge base with attention to transferability and innovation. For both tracks, strategic collaborations with the private sector, non-governmental organizations (NGOs), government agencies, national laboratories, field stations, teaching and learning centers, museums, and academic partners are encouraged. Goals of the NRT program are to:

- Catalyze and advance cutting-edge interdisciplinary research in high priority areas,
- Increase the capacity of U.S. graduate programs to produce interdisciplinary STEM professionals with technical and transferable professional skills for a range of research and research-related careers within and outside academia, and
- Develop innovative approaches and knowledge that will promote transformative improvements in graduate education.

- **Eligibility**:
  - **Limit on Number of Proposals per Organization**: Three (3). 2 for the **Traineeship Track**, 1 for the **Innovations in Graduate Education Track**
Each institution may submit two *Traineeship Track* proposals and one *Innovations in Graduate Education Track* proposals. If an institution submits only one *Traineeship Track* proposal, it can be on either DESE or another theme. If an institution submits two *Traineeship Track* proposals, *at least one* must be a DESE proposal. In either case (DESE or non-DESE), the traineeship theme of a *Traineeship Track* proposal must be interdisciplinary.

- *Limit on Number of Proposals per PI or Co-PI: An individual may serve as Lead Principal Investigator (PI) or Co-PI on only one proposal submitted to the NRT program.*

- **Funds Available & Anticipated Number of Awards:** The estimated number of awards under this solicitation is pending availability of FY 2015 and 2016 funds.

- **Budget & Project Period:**
  - *NRT Traineeship Track Awards* (10 anticipated) are expected to be up to five years in duration with a budget up to $3,000,000.
  - *NRT IGE Track Awards* (14-20 anticipated) are expected to be up to 2-3 years in duration with a budget between $300,000 and $500,000.

- **Application Details:** Since the University of Miami may only submit three (3) proposals (one must be a DESE proposal), this opportunity is a limited submission competition. An expert panel will internally review our candidates to determine which application will be submitted for competition by the NSF LOI deadline on December 22, 2015 (optional) and Full Proposal Deadline on February 22, 2016.

To apply, please send the following materials to Karen Lamper at klamper@miami.edu by 6/22/15:

- **Title of Proposal** *(For Traineeship Track proposals, the title should begin with “NRT-DESE:” for projects with a Data-Enabled Science and Engineering theme, or with “NRT:” for projects on a cross-cutting, interdisciplinary theme other than DESE; for Innovations of Graduate Education Track proposals, the title should begin with “NRT-IGE:”)*
- Your biosketch; including current and pending grant support.
- List of Senior/Key Personnel and their Role(s) on the Project
- List any other participating institutions (if applicable).
- A brief summary of your project (no more two pages), addressing the following:
  1. **For Traineeship Track proposals**, provide a brief summary of the vision and goals of the proposed training program including a brief description of the interdisciplinary research theme, the main training elements, the integration of the research and training, and the need for the program.
  2. **For IGE Track proposals**, provide a brief description of the graduate education models, approaches, or activities to be piloted and tested, including a brief description of the disciplinary or interdisciplinary needs and/or challenges addressed.

Please be cognizant that requested information above is required for the reviewers to make an informed decision/ranking regarding your research proposal for consideration as an internal award applicant. Failure to address each numbered sub-heading above can impact the ranking of your proposal.

**Note:** Biostatistical considerations in the design and analysis of proposed investigations are critical to the procurement of funding and quality of research. The Biostatistics Collaboration and Consulting Core (BCCC), as part of the Research Design and Biostatistics Component of the Miami CTSI, is available to provide support for grant proposal development. This support may be funded by service credits awarded by the Research Design
and Biostatistics Component of the Miami CTSI. For more information, please contact Maria Jimenez-Rodriguez at mjrodriguez@biostat.med.miami.edu.

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Faculty and staff in the University of Miami research community who subscribe to the research listserv are encouraged to post messages that facilitate collaboration. Please note, however, that posts from subscribers are not pre-screened or edited by the Office of Research. If you have questions about this listserv, please contact the Office of Research at rescomm@miami.edu.

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