

Pre-proposals for the NSF Research Traineeship (NRT) Program are **DUE Tuesday November 24, 2015.**

Program Synopsis:

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.

The deadline for Letter of Intents to be submitted to NSF is December 22, 2015. The deadline for proposals to be submitted to NSF is February 22, 2016. The solicitation for the competition is available at: <http://www.nsf.gov/pubs/2015/nsf15542/nsf15542.htm>. UW is limited to three (3) proposals. If UW submits three (3) proposals, two (2) can be for the Traineeship Track and one (1) can be for the innovations in Graduate Education Track. If we submit two (2) Traineeship Track proposals, at least one (1) must be a DESE proposal. The Traineeship Track proposal must be interdisciplinary. An individual may serve as Lead Principal Investigator (PI) or Co-PI on only one (1) proposal submitted to the NRT program.

We expect several applications to emerge from campus and therefore an internal competition and review will be required for the internal campus competition, a pre-proposal with the following elements must be submitted to Farrell Rapp at fgraf@uwyo.edu by **Tuesday November 24** by 5 p.m. (no exceptions):

- **Cover Page** (1 page maximum) – Must contain the following information: PI Name and contact information, Co-PI Name(s) and Department(s), proposal title (follow NSF solicitation instructions for proposal titles), and any other participating institution(s)
- **Project Synopsis** (4 page maximum) - Provide a brief summary of the vision and goals of the proposed training program including a brief description of the interdisciplinary theme, the main training elements, and the plan to extend training benefits beyond NRT trainees to a greater population of STEM graduate students on campus
- **Intellectual Merit** (1/2 page maximum) - A discussion of the intellectual merit.
- **Broader Impacts** (1/2 page maximum) – A discussion of the broader impacts.

The proposal must be written in non-technical language. The pre-proposals should be submitted electronically in one (1) PDF document to Farrell Rapp (fgraf@uwyo.edu) by 5 pm **November 24, 2015**.

For further information contact: Farrell Rapp at fgraf@uwyo.edu or by phone at 307-766-2047.