

To: Distribution List

From: Faculty Research Development Office
Office of the Vice President for Research

Subject: Limited Competition: NSF: EPSCoR Research Infrastructure Improvement Program: Track-2
Focused EPSCoR Collaborations (RII Track-2 FEC), NSF 20-504

Date: October 15, 2019

RII Track-2 FEC builds inter-jurisdictional collaborative teams of EPSCoR investigators in scientific focus areas consistent with NSF priorities. Projects are investigator-driven and must include researchers from at least two RII-eligible jurisdictions with complementary expertise and resources necessary to tackle those projects, which neither party could address as well or rapidly alone. The Science, Technology, Engineering, and Mathematics (STEM) research and education activities should seek to broaden participation through the strategic inclusion and integration of different types of individuals, institutions, and sectors throughout the project. Proposals must describe a comprehensive and integrated vision to drive discovery and build sustainable STEM capacity that exemplifies diversity of all types (individual, institutional, geographic, and disciplinary). The development of diverse early-career faculty is a critical component of this sustainable STEM capacity. For **FY 2020, RII Track-2 FEC proposals are invited on a single topic: "Harnessing the Data Revolution to solve problems of national importance."**

Solutions to many of the pressing problems facing society may require the integration of teams of scientists and engineers and the analysis of large and complex data sets arising from multi-disciplinary projects. Proposals submitted for the FY20 RII Track-2 FEC competition should be firmly placed in the context of NSF's "Harnessing the Data Revolution," one of NSF's Ten Big Ideas, and must address a specific and compelling problem related to a scientific topic area of national importance. The proposals should clearly identify and motivate the importance and relevance of the chosen topic area in the context of complex data sets and the current status of ongoing work in the area. Projects should demonstrate a multi-disciplinary nature, with the analysis of complex, quantitative and/or qualitative data sets as the central activity. Development of algorithms and software frameworks for the integration of the diverse data sets may be included in the proposal. Successful proposals will emphasize how new information can be obtained from better connections among data sources, utilization of data (including data from multiple facilities, techniques, and/or instruments), and how this will be used to address the specific problem of national importance. Proposers are encouraged to take advantage of existing data sets, where available. The creation of large-scale databases per se is not the focus of this solicitation, although the development and enhancement of such databases may be proposed as one element towards producing the final provisioning of data cyberinfrastructure that significantly increases the value of these data as well as their insights, predictions, and ultimate applicability.

If institutions from two RII-eligible EPSCoR jurisdictions (see solicitation) collaborate on a proposal, the award amount may not exceed \$1 million per year for up to four years. If institutions from three or more RII-eligible EPSCoR jurisdictions collaborate on a proposal, the award amount may not exceed \$1.5 million per year for up to four years.

The *required* letter of intent is due December 20, 2019 and full proposals are due January 24, 2020. You can find more information on the following link: https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505263.

This is a limited competition. Only **one** RII Track-2 FEC proposal may be submitted in response to this solicitation by an organization in a RII-eligible jurisdiction.

***If you anticipate that you will be submitting a preproposal for this internal competition, please send a statement of interest on the template (see pg. 3) via e-mail to limited@unm.edu by October 25, 2019. Note: The statement of interest is required in order for the preliminary proposal to be reviewed by the limited competitions committee.*

Please submit your 5-page pre-proposal plus coversheet, budget overview, NSF formatted biosketches, and references cited; all documents in a SINGLE PDF file, 11 point font) by NOON on Monday, November 11, 2019 to limited@unm.edu with the subject line indicating: FEC track 2 - your name. No late submissions will be considered.

The limited competition pre-proposal to UNM must include:

- A cover sheet that lists the project title and all senior personnel with each person's institution and contact information
- 5-page project description (in NSF allowable format) that includes:
 - Research: clearly articulated goals and activities with sufficient background information to show the novelty/originality of the approach and intellectual merit;
 - Collaboration: identify the institution(s) with which you will partner. Describe the partners and their contributions and provide the rationale for the partnership (why this collaboration is needed), and describe the management structure that will enable coordination among partners;
 - Workforce Development: focus on junior faculty and include diversity improvement strategies;
 - Labeled paragraphs describing the intellectual merit and broader impacts
- Budget overview (using Table below) and 1-page budget justification
- Biosketches (NSF format) for PI and Co-PIs
- References cited

Budget Overview Table (4 year totals)

	UNM	Institution 2 (Name)	Institution 3 (Name)
Salaries w/fringe— faculty			
Salaries w/fringe— students			
Salaries w/fringe— staff			
Equipment			
Travel			
Participant Costs			
Other Costs			
F&A			
Total (4 years)			

NSF EPSCoR Track-2 FEC Statement of Interest Template for UNM

Return by noon on October 25, 2019 to limited@unm.edu

1. Identify the institution(s) with which you will partner:

2. List all PI/Co-PI's (must have one per jurisdiction)

Name	Institution	Department	Email	Phone
	UNM			

3. Brief abstract of research and education focus (1-2 paragraphs)