

National Science Foundation

Office of Integrative Activities (OIA)

Major Research Instrumentation (MRI)

https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=5260

Dr. Robert Fleischmann (BIO/DBI, 703-292-7191)

rfleisch@nsf.gov

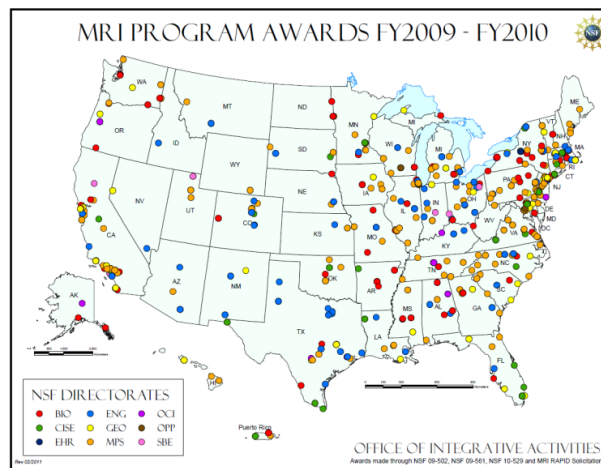
Dr. Steve Ellis (BIO/DBI, 703-292-7876)

stellis@nsf.gov

Randy Phelps (OD/OIA, 703-292-5049)

rphelps@nsf.gov

Solicitation: 18-513



NATIONAL SCIENCE FOUNDATION
MAJOR RESEARCH INSTRUMENTATION

MRI GOALS

- Catalyzing new knowledge and discoveries
- Empowering the Nation's scientists and engineers
- Providing state-of-the-art research instrumentation
- Enabling research-intensive learning environments
- Building capacity for a diverse workforce
- Developing next generation instrumentation
- Promoting academic-private sector partnerships

MRI@NSF.GOV
www.nsf.gov/od/oia/programs/mri

Major Research Instrumentation (MRI)

Strategic Goals: Proposals Should Address Them!

- Supporting the *acquisition* of a single, major state-of-the-art instrumentation, thereby improving access to, and increased use of, modern instrumentation shared by the Nation's scientists, engineers, and graduate and undergraduate students;
- Instrumentation should be for shared use across an institution, region, or the nation;
- Fostering the *development* of the next generation of major instrumentation, resulting in new instruments that are more widely used, and/or open up new areas of research and research training;

AND

- Enabling academic departments, disciplinary and cross-disciplinary units, and multi-organization collaborations to create well-equipped research environments that *integrate research with education*;

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Additional Goals:

- **Supporting the acquisition and development of research instrumentation that makes use of, advances, and/or expands the Nation's cyber-infrastructure and/or high performance capability:**
 - **Support development of computational and data-intensive science and engineering programs, or**
 - **Provide pathways to regional and national infrastructure.**
- **Promoting substantive and meaningful partnerships for instrument development between the academic and private sectors:**
 - **Create innovative ideas or products with wide scientific or commercial impact.**
- **The MRI program seeks a broad representation of PIs in its award portfolio including women, underrepresented minorities, and persons with disabilities; types of institution**

MRI Proposals – The Basics

- Restrictions on organization submission eligibility - see solicitation
- Submission limit¹- Three (3) per organization:
 - Track 1: $\geq \$100,000$ and $< \$1,000,000$
 - Track 2: $\geq \$1,000,000$ and $\leq \$4,000,000$
- Any performing organization may submit no more than two Track 1 proposals and no more than one Track 2 proposal. Proposals may be acquisition or development proposals.
- Cost-sharing at the level of 30% of the *total project cost* is required for Ph.D.-granting institutions and non-degree-granting organizations. *Cost-sharing is not required for non-Ph.D. granting institutions.*
- Merit Review - At the time of submission, PI's are asked to identify an NSF division(s) to review proposal. NSF reserves the right to *place proposals in the appropriate division(s) for review.*

¹Proposals that violate this limit are subject to return without review

MRI Program Solicitation NSF 18-513

- **Proposals considered for Instrument Acquisition (3 years) or Instrument Development (5 years)**
- **Number of Anticipated Awards based on anticipated FY19 budget of \$75 million¹:**
 - **~ 800 Submission NSF wide**
 - **~ 180 BIO submissions**
 - **Up to \$20 million for \$1-4 million awards^{1,2}**
- **Anticipated Award Size:**
 - **\$100,000 to \$4 million for either acquisition or development proposals**

(no minimum for proposals from non-Ph.D. granting institutions or proposals for fields of mathematical and social, behavioral and economic sciences)
- **Proposals Due: January 1 - 21, 2020**

¹Subject to availability of funds

²Subject to proposal quality