

## Limited Submission

### Major Research Instrumentation Program (MRI)

Most recent NSF announcement:

[https://www.nsf.gov/publications/pub\\_summ.jsp?WT.z\\_pims\\_id=5260&ods\\_key=nsf18513](https://www.nsf.gov/publications/pub_summ.jsp?WT.z_pims_id=5260&ods_key=nsf18513)

**WVU Internal Due: Tuesday October 9, 2018**

Agency Full Proposal Due: January 22, 2019

### WVU Specific Information

WVU has been a successful competitor in the last two cycles of this award (for a HPC acquisition in 2017 and for plasma instrumentation development in 2018). We are eager to keep up the success. To facilitate more cross-college and cross-campus dialogue on 2019 proposals, this cycle the Research Office is promoting the use of a common shared file

(<https://westvirginiauniversity.sharepoint.com/w:/s/MRIcollaborative/EedfUWVRTfpOpn08o1gQ6JIBFzpLLjqAoaMJM-osdzewnA?e=U9rERd>

where faculty can add their own instrumentation requests, and can also see what is being proposed by their colleagues. We are encouraging everyone to comment and contribute to the early planning for any instrument. The Research Office will aid in hosting/planning any additional in-person round tables on proposal ideas that emerge. Naturally not every instrumental utilization or requested instrument specification may be fiscally or scientifically prudent, but the most fundable proposals are those that address the needs of the largest community of investigators doing first rate work.

### General NSF details (note changes from past competitions)

Each MRI proposal may request support (\$100K to \$1M) for acquisition or development of instrumentation (Track 1) or support (\$1M to \$4M) for acquisition or development of instrumentation (Track 2). WVU is allowed a maximum of two Track 1 and one Track 2 proposals. Sub-awards on external proposals may count against our institutional maximum (please contact [sheena.murphy@mail.wvu.edu](mailto:sheena.murphy@mail.wvu.edu) if you are considering being a sub-awardee to discuss details.

### Instructions

If you are interested in submitting for this solicitation, you must first submit an internal proposal by the above internal due date for external review and selection.

### Internal Proposal Guidelines (5 pages):

Email to: [Deanna.Messenger@mail.wvu.edu](mailto:Deanna.Messenger@mail.wvu.edu) with subject line: "MRI 2019 Internal Proposal"

To include:

- PI(s) and Departmental and University Affiliations
- Proposal Title specifying Track 1 or Track 2
- Description of the Research Instrument and Needs: Description of the requested instrumentation, including manufacturer and model number where appropriate. This section should clearly explain why the requested equipment is needed. The existence and availability of comparable instrumentation (at organizations in close geographical proximity, or otherwise accessible through collaborations or cyberinfrastructure) should be included.
- Estimated Budget
- *Cost sharing: We are not requiring cost share (30%) documentation at this stage, but groups selected for NSF submission will be required to satisfy cost share requirements within 14 days of selection or risk losing their authorization to submit to NSF.*
- Outline: In two (or more) separate paragraphs address the intellectual merit and broader

impacts of the project. The summary should be informative and understandable to a scientifically or technically literate reader.

- **Research Activities:** Briefly describe and motivate the specific research and research training activities and projects that will be enabled with the desired instrumentation. The degree to which the planned uses of the proposed instrumentation constitute exciting, ground-breaking, or transformative research is a significant factor in the merit review evaluation of MRI proposals.
- **Users:** In narrative or tabular form describe the personnel by research area, number, and type (e.g., senior personnel, postdoctoral fellows, graduate students, undergraduate students). Include only those who will most actively use the instrumentation for research and research training on a regular basis.
- **Impact on Research and Training Infrastructure:** Briefly describe how the instrument will serve to attract researchers and make a substantial improvement in the institution's capabilities to conduct leading-edge research.
- **Brief Management Plan:**
  - A description of the space or the facility in which the instrument will be placed.
  - A description of how and by whom the requested instrumentation will be operated and maintained over the expected lifetime of the instrument.
  - The anticipated costs and the technical expertise needed to maintain and operate the instrument. If the expertise is not currently available, describe how it will be obtained.
  - A description of procedures for allocating the instrument time, if appropriate, and plans for attracting and supporting new users. Include information on anticipated usage and downtime.
- The following only applies to proposals that are MRI **resubmissions** to the NSF from FY16 through FY18: please include all reviewer and panel comments and provide no more than 1 page discussion as to how this new proposal addresses those concerns. *None of these additional materials for resubmissions count against the 5 page total.*

Feel free to contact [Sheena.Murphy@mail.wvu.edu](mailto:Sheena.Murphy@mail.wvu.edu) with questions.