The University’s internal deadline for the limited submission competition for the National Science Foundation (NSF), Software Infrastructure for Sustained Innovation - S2I2 (NSF 15-553) is 3/31/15. If you are interested, please read on for details.


- **Purpose:** Software Infrastructure for Sustained Innovation (SI²) is a long-term investment focused on realizing a portion of the Cyberinfrastructure Framework for 21st Century Science and Engineering (CIF21, [http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=504730](http://www.nsf.gov/funding/pgm_summ.jsp?pims_id=504730) ) vision and catalyzing new thinking, paradigms and practices in science and engineering. CIF21 envisions a linked cyberinfrastructure architecture that integrates large-scale computing, high-speed networks, massive data archives, instruments and major facilities, observatories, experiments, and embedded sensors and actuators, across the nation and the world, and that enables research at unprecedented scales, complexity, resolution, and accuracy by integrating computation, data, and experiments in novel ways.

The SI² program includes three classes of awards:

1. **Scientific Software Elements (SSE):** SSE awards target small groups that will create and deploy robust software elements for which there is a demonstrated need that will advance one or more significant areas of science and engineering.

2. **Scientific Software Integration (SSI):** SSI awards target larger, interdisciplinary teams organized around the development and application of common software infrastructure aimed at solving common research problems faced by NSF researchers in one or more areas of science and engineering. SSI awards will result in a sustainable community software framework serving a diverse community or communities.

3. **Scientific Software Innovation Institutes (S²I²):** S²I²s are an integral part of the SI² software ecosystems and focus on the establishment of long-term hubs of excellence in software infrastructure and technologies, which will serve a research community of substantial size and disciplinary breadth. The outcomes of S²I² go beyond the software itself, including the software development infrastructure and process, successfully responding to science challenges, and enabling transformative new science. These institutes will provide expertise, processes and architectures, resources and implementation mechanisms to transform computational science and engineering innovations and community software into robust and sustained software infrastructure for enabling science and engineering, which in turn will transform research practices and productivity. S²I² proposals will bring together multidisciplinary teams of domain scientists and engineers, computer scientists and software engineers, technologists and educators.
Note: Please refer to the program announcement link (above) for pertinent program details.

- **Eligibility:**
  - Limit on Number of Proposals per PI or Co-PI: One (1) An individual can participate as PI, co-PI, or Senior Personnel, or Consultant on no more than one Implementation proposal submitted in response to this solicitation. These eligibility constraints will be strictly enforced in order to treat everyone fairly and consistently. In the event that an individual exceeds the one-proposal limit for this solicitation, the proposal received within the limit will be accepted based on earliest date and time of proposal submission (i.e., the first proposal received will be accepted and the remainder will be returned without review). No exceptions will be made.

  There is no limit on the number of Conceptualization proposals per PI, though there is a limit of one Conceptualization proposal per institution.

- **Funds Available & Anticipated Number of Awards:** NSF anticipates $13,500,000 for an estimated 3 to 8 awards.

- **Budget & Project Period:** Up to 5 S²I² Conceptualization award (each up to $500,000) may be funded in FY15, totaling $2,500,000. A CMRSI Implementation award may range from $1,000,000 to $4,000,000 per year, and may initially be planned for five years. An SGSI Implementation award may range from $1,000,000 to $3,000,000 per year, and may initially be planned for five years. One SGSI implementation award and up to two CMRSI implementation awards may be made. Total FY15 funding for S²I² Implementation awards may be $11,000,000.

- **Application Details:** Since the University of Miami may submit a total of three (3) proposals; one proposal per each class (Conceptualization, CMRSI Implementation, SGSI Implementation), 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 deadline on June 03, 2015.

To apply, please send the following materials to Karen Lamper (formerly Del Rio) at klamper@med.miami.edu by 3/31/15:

- Title of Proposal
- Indicate to Which Class you Plan to Apply (Conceptualization, CMRSI Implementation, SGSI Implementation)
- Your biosketch; including current and pending grant support.
- A brief summary of your project (no more than two pages).

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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