Sponsor: National Science Foundation (NSF)
Program: Software Infrastructure for Sustained Innovation - S2I2
(SI2-S2I2) - Conceptualization Proposals
Estimated Award Amount: Up to $500,000 over 1 year
JHU Nomination Limit: 1
For more detailed information: NSF S2I2 Conceptualization

Conceptualization Awards: S2I2 Conceptualization Awards are planning awards aimed at organizing an interdisciplinary community and understanding their software requirements and challenges. Example activities that may be undertaken as part of this award include focused workshops, special sessions at professional meetings, sandpits, focus groups, etc. These awards will typically be 1 year in duration. The product of a conceptualization award will be a strategic plan for enabling science and education through a sustained software infrastructure that will be freely available to the community, and will address the following elements:

- the science community and the specific grand challenge research questions that the S2I2 will support;
- specific software elements and frameworks that are relevant to the community, the sustainability challenges that need to be addressed, and why addressing these challenges will be transformative;
- appropriate software architectures and lifecycle processes, development, testing and deployment methodologies, validation and verification processes, end usability and interface considerations, and required infrastructure and technologies;
- the required organizational, personnel and management structures and operational processes;
- the requirements and necessary mechanisms for human resource development, including integration of education and training, mentoring of students, postdoctoral fellows as well as software professionals, and proactively addressing diversity and broadening participation;
- potential approaches for long-term sustainability of the software institute as well as the software;
- potential risks including risks associated with establishment and execution, necessary infrastructure and associated technologies, community engagement, and long-term sustainability.

Eligibility & Requirements:

- There are no restrictions or limits.

Internal Nomination Process:

Interested applicants should send the following documents in sequence in one PDF to resapp@jhu.edu no later than 4 p.m. on January 20, 2016:

1. JHU Limited Submission Cover Sheet
2. Abstract (one page, double-spaced)
3. Proposal (maximum of four pages of text only, single spaced: 12-pt font and one-inch margins)
   (Note: figures, tables, and other reference material should not be included as text)
4. Curriculum Vitae of investigator, including current external research support and publications
5. Budget (two pages maximum)
6. Letter of Recommendation from the Department Chair/Director: Letters of Recommendation can be submitted separately to resapp@jhu.edu stating applicant’s name in the subject line)

Each applicant should expect to receive a confirmation of receipt of their materials. If an applicant does not receive an acknowledgement, or has any questions, please contact Charles Bartunek via resapp@jhu.edu.