CSoI Education Program RFP
Support for Interdisciplinary Student/Postdoc Research Teams
Revised June 11, 2018
Primary Contact: Brent T. Ladd, Director of Education, CSoI, laddb@purdue.edu

Synopsis:
The Center for Science of Information (CSoI) Student-Postdoc Research Team framework supports the formation of interdisciplinary teams of students, postdocs, and advising faculty mentors working within and across departments and institutions on problems related to the Center's grand challenges including a) Big Data/Data Science, b) Digital and Wireless Communication, c) Life sciences/bioinformatics issues (see the Center website for more detail about the various thrust areas: http://soihub.org/research.php)

Eligibility:
Multi-institution/Multi-disciplinary Teams: involve at least two institutions and two distinct departments. At least one CSoI institution must be represented (see our Center website for full list of current institutional partners: https://soihub.org/about/academic-partners/) *Students must have their faculty advisor agree to their participation on the team project.* Teams may include additional students/faculty if doing so will benefit the project. Ideal team size is from 3-5 members.

Project Types:
Team Project: An interdisciplinary research problem with the intention that team members co-present the results as a conference poster or oral presentation ideally by the end of December 2019. Any work toward eventual co-authored journal publication is also supported. Teams are expected to meet at least once in person during the project year, along with monthly discussions using phone, Skype, web, etc.

Funding Available:
Team Project: Team maximum $6,000 to use toward travel and lodging expenses for continued team collaboration and co-presentation of results at a conference (can include conference registration fees hotel, and airfare/shuttle fees). Renewal may be granted for future years citing demonstrated progress.

Note: Team member expenses will be reimbursed based on original travel and meeting receipts submitted up to the amount of the team budget. Instructions & forms will be sent to teams selected for awards.

Letter of Intent: Due July 23. Teams planning to submit a proposal for the September 7 deadline should first contact the CSoI's Director of Education by email (Brent T. Ladd, laddb@purdue.edu) with each team member listed, associated department and university, draft title of project, and a brief paragraph project description no later than July 23.

Full Proposal Requirements: (due September 7, 2018)

Cover Page:

Team/Project Title and Date, with Project Type and Total Funds Requested

<u>Co-PI's</u> – list each student PI, email, department, institution, with respective faculty advisor names in parentheses after each student member. *<u>Faculty advisors should provide their name and signature on the cover page agreeing to their student's involvement in the team.</u>*

Narrative: 4 pages maximum for Team Project, (11 pt font minimum)

<u>Problem statement</u> – clearly state the problem(s) the team will coalesce around to conduct discussion and research.

<u>Intellectual Merit & Broader Impacts</u> – describe the potential of your research project to advance scientific knowledge, and describe the potential broader impacts for society that could result from undertaking the research project.

<u>Proposed activity</u> – describe specific interdisciplinary activities the team will undertake and how the activities will address the problem stated. (*e.g. team will meet in person twice at x locations, and monthly by virtual meetings, will incorporate X data analysis tool, etc.*). Briefly describe how the activity/problem is connected with one or more of the Center research areas: http://soihub.org/research.php).

[Advanced notice: Teams that receive funding should plan ahead to have the project leader (and as many interested team members as possible) attend the Center's NSF site visit to present a poster about your project at the NSF STC site visit in December 2018 at Purdue University (Date TBA, likely December 4-5). You will also present a 15-20 minute overview of your project to all students attending the site visit. Project leaders and team members who are not funded by a Center faculty advisor to attend the annual meeting will be reimbursed by the CSoI for travel expenses – this additional expense is <u>not</u> included in the team budget, but is in addition to team meeting expenses included for this proposal.]

<u>Goal(s), and Outcomes</u> – list expected outcomes from the proposed activity goal(s). Several short-term outcomes (e.g. collaborations result in improved methods for x…) and at least one long-term outcome should be described (*e.g. collaborations result in team co-presenting results at x conference; a journal paper is published on results from experiment x; resulting software shared with other practitioners*).

<u>Proposed work statement</u> – a realistic plan of how each team member will contribute and is involved in the team project research, and a brief statement of how each member's involvement could aid in their own professional progress (in their PhD program, undergraduate degree, postdoctoral experience, etc.). Team meeting format and frequency should also be described (phone conference, Skype, in-person at x university, etc)

<u>Diversity statement</u> – Per the Center's own NSF requirement, we ask you to include a statement addressing how the proposed research project advances the diversity mission of the Center, which is to recruit, retain, and promote women, US citizens, and other members of underrepresented groups in the science of information field. For example, this statement could primarily be related to the membership of your research team.

Reference section: (1/2 page max) – provide the most relevant journal paper references for your project

Budget & Justification section – Provide a table showing itemized funding amounts requested and the one-year total. Below the table provide justification for the funding items. Funding will be strictly for travel, hotel, and conference expenses for your team so this should not be complicated. Reasonable student level conference registration fee is allowable in the budget. (*e.g. travel to International Symposium on*

Algorithms and Computation conference, three graduate students will co-present results of the research at this conference; Four team members meet for three days at X university during February 2019, etc.).

Due Date for Letter of Intent: July 23, 2018

Due Date for Proposals: September 7, 2018.
Funding decisions will be made by September 17, 2018.

Start Date if Funded: September 17, 2018.
Duration: one year+ (teams with demonstrable progress may be renewed for future years). Funds from this project year should be spent by December 31, 2019.

Progress Reporting:
A brief 1-2 page progress report will be due March 1, 2019, and an annual project report noting any deliverables will be due by September 1, 2019 to the Center's office at Purdue, which in turn allows the Center to report back to NSF on progress.

Team Science Proposals Contact: Brent T. Ladd, Director of Education, CSoI, laddb@purdue.edu