The CDER Center is pleased to announce a new program to help faculty incorporate Parallel and Distributed Computing (PDC) into courses for students in their first two years of undergraduate study.

**Highlights:**

- $5000 grant to each of 15 participants
- Participants attend a one-week training workshop (July 16 - 20, 2018, at UMass Amherst)
  - Training includes PDC content, and educational evaluation methodology
- Funding for up to 12 additional people to attend the training workshop (no grant or obligations)
- First year will focus on early courses (CS1, CS2, Data Structures/Algorithms, Systems)
- Participants implement PDC course enhancements or new course(s) in academic year 2018-2019
- Participants write and submit a paper describing their course experiment and evaluation
  - Additional support may be available for attending EduPar or EduHPC to present work

Application Deadline: May 1, 2018
Notification: May 15, 2018
Program will repeat in 2019 with focus on Discrete Math, Algorithms, Upper level courses

**Program Overview**

The $5000 grant is meant to be used in support of curriculum development, and in part to cover travel expenses to the training workshop (airfare, housing, dinners, incidentals). Breakfast and lunch will be provided as part of the workshop each day. There is no fee for the workshop itself.

Training will be a combination of learning to use PDC tools, learning how to design and instrument an experimental course for meaningful evaluation, and pedagogical approaches for engaging a diverse set of students in PDC studies.

The expectation is that grant recipients will develop experimental versions of course enhancements, or a new course or courses, to be offered in the academic year following the training. Participants commit to preparing a paper that reports the results of their efforts, based on application of the evaluation methodologies covered in the training, and submitting it for publication. The grant is also intended to help support travel to present the paper. If papers are accepted for publication in either of the EduPar or EduHPC workshops, we may be able to offer travel subsidies to partially offset the cost of conference attendance. Any courseware that is developed will be contributed to the CDER exemplars public repository so that others may benefit from these course development efforts.

**Application Process**

To apply, submit a brief proposal to the CDER Center using Easy Chair. The proposal should include:

- Applicant’s name
- Academic position
- Institutional affiliation
- Address
- Email
- Phone number
- Description of institution (e.g., 4-year college, 2000 students, 100 CS majors, 8 CS faculty)

For each course that will be enhanced with new PDC content:

- Course number and title
- Year(s) in which it is taken (Freshman, Sophomore, Junior, Senior)
- Required or elective
- Semester or quarter length (weeks)
- Number of credits
- Frequency of offering (number of terms offered per year)
- Single or multiple sections (if multiple, indicate whether you teach some or all)
- Taken by majors only, open to limited other majors, general service course
- Typical enrollment number
- If an elective for majors, indicate the fraction of a graduating class who take the course
- Indication that changes are allowed (e.g., approved by curriculum committee)
- Attach an existing course syllabus
- List the topics from the PDC curriculum you hope to introduce as a result of the enhancement.

For each entirely new course that will be created to offer PDC content:

- Course number and title
- Term it will first be offered
- Student years that it will be open to (Freshman, Sophomore, Junior, Senior)
- Will it become a requirement or is it planned to remain an elective?
- Semester or quarter length (weeks)
- Number of credits
- Planned frequency of offering (number of terms per year, or one-time offering)
- Open to majors only, open to limited other majors, general service course
- Planned enrollment size
- Indication of feasibility of offering course (e.g., “Curriculum committee is OK with trying this next Spring.”)
- Attach a preliminary syllabus (or a copy of a course proposal form)
- List the topics from the PDC curriculum you hope to cover in the course.

- Indicate whether you are applying for the grant, or only for workshop attendance support.

- Provide a brief (few sentences) description of your background in parallel and distributed computing, if any, and what you hope to learn from attending the training. Briefly tell us about your motivation for adding PDC content to your course curriculum.

Apply through EasyChair using CDER PDC Curriculum New Early Adopter Grant Program 2018:

https://easychair.org/conferences/?conf=cderpdcneag2018

Also see https://grid.cs.gsu.edu/~tcpp[curriculum/?q=the-early-adopter-program.html for updates.