As part of the Blue Waters efforts to motivate and train the next generation of supercomputing researchers, the program is sponsoring 17 undergraduate research interns in 2011. The goal is to engage undergraduate students in petascale computing research and development projects. The program provides a student stipend totaling $5000, a two-week intensive high-performance computing computing workshop, and travel to the SC11 supercomputing conference in Seattle.

This program provides support for undergraduate internship activities at any accredited degree granting institution in the United States. The internships awarded through this program may be to students working with a faculty mentor on their home campus, or at another campus. Interested faculty need to create a position description through our site, and can specify a particular student that the position is intended for, or may select a qualified applicant with Blue Waters support through our program.

Additional information about the program is available at - http://shodor.org/petascale/participation/internships/
Or by contacting Jennifer Houchins (jhouchins@shodor.org), or Jeff Krause (jeffk@shodor.org)

Undergraduates Wishing to Apply

Eligibility:
Undergraduate students interested in participating in a year-long science or engineering internship. Students must be enrolled as undergraduates through Spring 2012 at a U.S. degree-granting institution.

Dates:
- Applications must be submitted by April 10
- Notifications being made by April 15
- The two-week Undergraduate Petascale Institute will take place at the National Center for Supercomputing Applications at the University of Illinois at Urbana Champaign from May 29 through June 10
- The research is expected to begin over the Summer months with continued work during the school year. Presentation of the project to the supercomputing community will take place at the SC11 conference in Seattle, Nov. 12-18, and in the form of a final report paper submitted to the Journal of Computational Science Education by May 31.
- Internships will conclude by May 31, 2012

How to Apply:
Eligible undergraduate students are asked to submit an application for consideration through our website (see URL above). There is an area on the form where students can identify a faculty mentor as a mentor. Students who have taken the initiative to arrange an internship with a faculty mentor are more likely to be selected for this program than students that have not.

Faculty Interested in Mentoring

Eligibility:
Undergraduate faculty who would like to mentor an undergraduate student in a year-long internship that involves teaching or researching the use of high-performance computing in studying problems in the sciences, engineering, or mathematics.

Promotional Materials available at our website:
- A PowerPoint slide is available to let students know about the program
- A poster-sized and handout-sized flyers (in pdf format) to inform students and colleagues about this program.

Dates:
- Intern position descriptions must be submitted by April 10
- Notifications being made by April 15
- Student work on the internship will begin on or around June 13 (after the Petascale Institute)
- Students will work full-time over the Summer and as schedules allow during the academic year
- Students are expected to prepare a poster on their project for presentation at the SC11 Education Program Nov. 12

How to Participate:
Faculty should create descriptions of undergraduate internship positions they have available through our website (see URL above), indicating either that the position is intended for a particular student applicant, or that it is open to qualified applicants.