

XSEDE Education Program Opportunities

The XSEDE project, the follow-on to TeraGrid, will be providing a number of training education and outreach services to the national research and education community. The new education initiatives are focused on working with higher education institutions to broaden participation in computational science programs. The programs are based on a developing set of undergraduate and graduate computational science competencies based on the work at the Ralph Regula School of Computational Science in Ohio. (Visit <http://www.rscs.org/competencies>).

The XSEDE education program will work with colleges and universities to assist in implementing formal undergraduate and graduate minor, certificate, and degree programs in computational science. The interdisciplinary programs incorporate competencies in a science or engineering domain, mathematics, and computer science to prepare students to effectively apply modeling and simulation as a path to discovery in research and commercial settings.

XSEDE will:

- Work with the educational community to create model programs and their related requirements and competencies.
- Provide assistance to campuses in formulating and preparing programs for approval.
- Provide professional development workshops for faculty focusing on program formulation, pedagogy, and instructional materials.
- Provide a shared repository of instructional and program materials.
- Assist in obtaining XSEDE computing and training opportunities for educational uses.

Participating campuses will:

- Host startup meetings with faculty and administrators to discuss campus and project goals.
- Participate in monthly conference calls to discuss requirements and progress on program implementation.
- Host training sessions for faculty.
- Provide leadership for the creation and approval of certificate programs.

What is XSEDE?

It is the most advanced, powerful, and robust collection of integrated digital resources and services in the world. Initially, XSEDE supports 16 supercomputers and high-end visualization and data analysis resources across the country. For more information, visit <https://www.xsede.org>.

Contact Steve Gordon at the Ohio Supercomputer Center to discuss XSEDE educational opportunities: sgordon@osc.edu.

