



SC09 Education Program

<http://sc-education.org/>

What is the SC09 Education program?

The Education Program is a multi-year, year-round program primarily designed to teach undergraduate faculty from a broad range of disciplines about high performance computing and computational methods, and to help them integrate HPC and computational techniques into their classrooms. The program culminates in a week-long offering at the SC09 Conference in November. In addition, the program sponsors three different categories of annual awards, as well as a student contest.

Who is the intended audience?

The SC Education Program is open to undergraduate and graduate educators in all fields of science, technology, engineering, mathematics, humanities, arts and social sciences, especially those from minority-serving institutions. The summer workshops are also open to high school teachers collaborating with college faculty. Faculty are encouraged to mentor and support undergraduate and graduate students by including them as part of their team.

What are the SC Education summer workshops?

The SC Education Program provides week-long, hands-on workshops in computational science and parallel and cluster computing. These workshops focus on integrating high performance computing (HPC) and computational techniques into the curriculum for a wide variety of sciences primarily, but not exclusively, at the undergraduate level. These workshops are mainly designed for undergraduate faculty, who are also welcome to include administrators and students as part of their curricular development team. See <http://sc-education.org/workshops/>

What are the SC Education Program awards?

The SC Education Program sponsors three awards annually: the Dr. Mary Ellen Verona Computational Science Teacher Leader Award, the Dr. Robert M. Panoff Student Award for Explorations in Science Through Computation, and the Undergraduate Computational Engineering and Sciences Award (UCES). Each of these awards consists of an invitation and funding to attend the Education Program at the SC09 Conference in Portland, Oregon, as well as a cash prize for the Verona and UCES awards, an internship opportunity for the Panoff award and an award certificate. The application process will begin in spring of 2009 and conclude late summer. See <http://sc-education.org/opportunities/>

What is the SC Education Computational Science Student Contest?

The contest is a competitive programming event. Teams consisting of high school, undergraduate, and/or graduate students will be given eight to twelve problems from various scientific domain areas, and in an allotted amount of time find computational solutions to as many of them as possible. The contest will take place on-site at the SC09 conference in Portland, Oregon. Registration for the contest will open late summer. See <http://sc09.sc-education.org/conference/>

Who are the sponsors of the SC Education Program?

The SC Education Program is part of the SC09 conference (<http://sc09.supercomputing.org>), which is sponsored by ACM and IEEE. In addition, the SC Education Program is supported by the Intel Corporation, TeraGrid, Blue Waters, and the National Computational Science Institute.

