



2005 Undergraduate Summer Institute on High Performance Computing

June 6 – August 5, 2005

Army High Performance Computing Research Center
Minneapolis, MN

The objectives of the Institute are to provide training and hands on experience in the use of high performance computing (HPC) for science and engineering students, and to prepare those who choose to pursue graduate studies in technology areas dependent upon HPC.

The program curriculum provides for both research and training in the development and use of HPC. HPC research application areas for 2005 may include computational fluid dynamics, atmospheric science, Nanotechnology and computational chemistry and scientific visualization. Examples of past projects can be viewed at our Website (www.ahpcrc.org). Students are expected to participate in HPC application demonstration projects. Training curriculum includes programming for scalable HPC systems, graphics and visualization, and modeling scientific problems on HPC systems. Student will have access to the AHPCRC advance computing systems, including the IBM SP, CRAY T3E, CRAY SV1ex and CRAY X1.

Participants receive a stipend of \$3,500 for the nine-week period. Participants receive a travel allowance and dormitory accommodations, including meals, at the University of Minnesota. Students local to Minneapolis may opt for a higher stipend in exchange for the travel, room and board.

Prerequisites: This program is intended for undergraduate students who are US citizens and anticipate graduation Spring 2006 or later. It is expected that all students in the Summer Institute will have completed freshman calculus and will have some computer programming experience.

Applications should include the following information:

- An application form
- A one page statement including career and research objectives and computer experience
- A current transcript of coursework
- Two letters of recommendation (one from an AHPCRC faculty member).

This information should be directed to the following address by **FEBRUARY 25, 2005** (late applications cannot be assured of full consideration):

AHPCRC Summer Institute
1200 Washington Avenue South
Minneapolis, MN 55415-1226
Tel: 612 / 337-3424 Fax: 612 / 337-3400
Email: bbryan@ahpcrc.org

This announcement and examples of past projects can be found at <http://www.ahpcrc.org>.

*This announcement is also available in alternative formats upon request by individuals with disabilities.
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