



<http://institutes.lanl.gov/isti/summer-school/>
<http://newmexicoconsortium.org/probe/summer>

New Mexico Consortium and
Los Alamos National Laboratory

HOW TO APPLY

Applications will be accepted
JANUARY 7, 2013 — FEBRUARY 15, 2013

CS/CE/EE Undgraduate Students are Encouraged
to Apply.

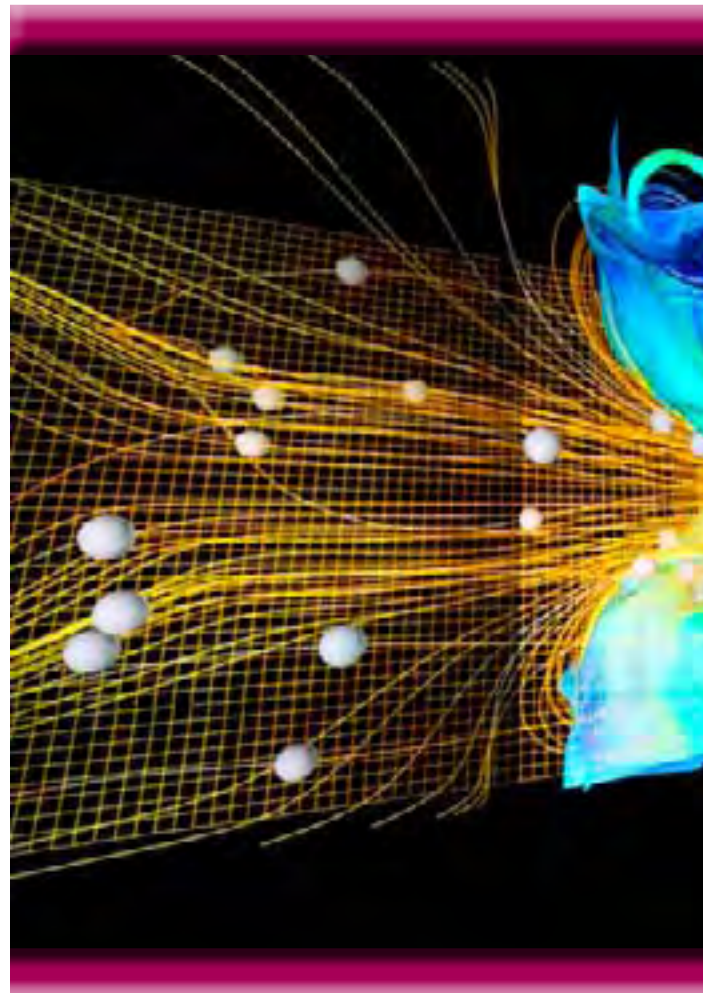
- Submit a current resume;
- Official University Transcript (with spring courses posted and/or a copy of spring 2013 schedule) 3.0 GPA minimum;
- One Letter of Recommendation from a Faculty Member; and
- Letter of intent stating strengths, goals, and interests.

Send all application materials to:

Carol Hogsett
Los Alamos National Laboratory
Mail Stop B260
Los Alamos, NM 87545

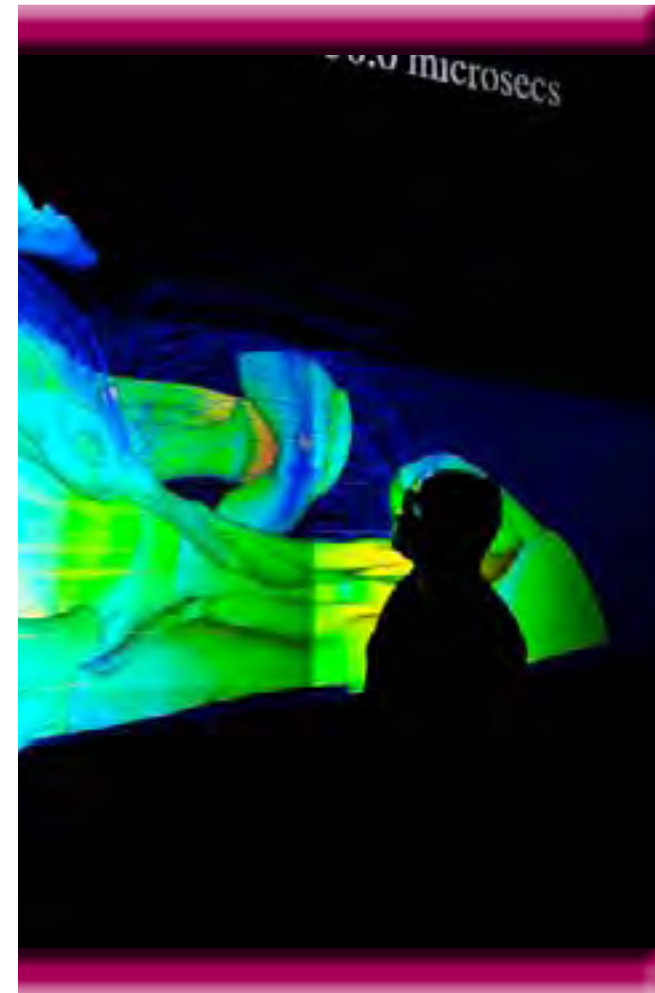
Email: carol@lanl.gov
Voice: 505-665-4732
Fax: 505-665-4361

Students will be notified of selection by the end of
February 2013.



Computer System, Cluster, and Networking Summer Institute

An NSF-sponsored undergraduate summer institute



Computer System, Cluster, and Networking Summer Institute

Purpose

The Computer System, Cluster, and Networking Summer Institute (CSCNSI) is a focused technical enrichment program targeting third-year college undergraduate students currently engaged in a computer science, computer engineering, or similar major. The program emphasizes practical skill development in setting up, configuring, administering, testing, monitoring, and scheduling computer systems, supercomputer clusters, and computer networks through a variety of activities including hands-on technical training, lectures, professional development seminars, and tours of LANL facilities.

Students work in small project teams to execute real-world projects on computer clusters that they assemble and configure. A university instructor provides class instruction, and LANL subject matter experts mentor team projects. Students develop written and oral communications skills through critiqued presentations and present their work at a technical poster session at the conclusion of the Summer Institute. The CSCNSI is also an innovative, proactive approach to making the students aware of career possibilities within the Laboratory.



Description

The Information Science and Technology Institute (ISTI) and the New Mexico Consortium (NMC) are soliciting undergraduate student applicants for the Summer Institute 2013.

During the nine-week Institute, students will receive technical training/lectures, professional development seminars, and laboratory experience with LANL staff and an experienced university instructor. A hands-on

computer system laboratory/machine room fully populated with unassembled computer nodes, networking equipment, and assorted equipment, cables, and supplies are provided.

Additionally, practical skill development in setting up, configuring, administering, testing, monitoring, and scheduling computer systems, supercomputer clusters, and computer networks will be emphasized and facilitated. Technical



Students presentation on summer project work

breadth will be developed via exposure to a variety of key topics, technologies, and problems of interest through participation in tutorials, seminars, guest lectures by computer professionals and scientists, as well as LANL facility tours. During the Institute, students will work in small project teams and will present their work in a technical forum. A University faculty instructor and LANL mentors will be available as resources throughout the summer.

Students

This highly-selective program is designed for third year (i.e., Junior) and above undergraduate students, although in some cases, Sophomore applicants may be considered. Acceptance into the program will be based on academic record (3.0 GPA minimum), interest and goal statement, and a letter of recommendation.



Students testing QDR Infiniband hardware



Los Alamos Research Park

As a general guideline, students should have experience with the LINUX operating system and sufficient academic achievement to make them eligible graduate school candidates upon completion of their undergraduate program. CS and EE/CE students from US universities will be considered. This program is limited to US citizens.

Duration and Location

The summer school program will last nine weeks, June 3 through August 2, and will be held at the New Mexico Consortium (NMC) in Los Alamos, NM.

Faculty

A New Mexico Consortium instructor will conduct lectures and supervise machine room activities. In addition, Laboratory staff will provide guest lectures on a diverse set of research topics, as well as technical mentor projects.



Dane Gardner
CSCNSI Instructor

"My summer at ISTI was one of the most awesome and educational experiences of my life. Because of the resources available at this unique facility, I was able to learn about high-performance computing (HPC) by actually doing it instead of just being taught from a textbook." — 2010 Student

"The summer institute was a great experience. I gained tons of great knowledge in learning how supercomputers and computer clusters work. I also learned a lot about how to make a poster and deliver a technical talk." — 2011 Student

"I learned more this summer in a very short amount of time than I think I have learned in any class I have taken at school. It's a fantastic educational experience." — 2012 Student