How to Apply
Upper division undergraduate students and early graduate students in all scientific disciplines are encouraged to apply. Students must be U.S. Citizens or have a work authorization through an accredited U.S. university with a minimum GPA of 3.0 for undergraduates and 3.2 for graduate students on a 4.0 scale.

To apply:
• Submit a current resume (state citizenship)
• Letter of intent describing your
  • research interests and experience,
  • computational/computing experience,
  • interest in the program, and
  • overall strengths and goals.

Apply at:
https://tinyurl.com/LANLParallel
or
Email: apply-parallelcomputing@lanl.gov

Application Deadline January 10, 2020
Notification by early-February 2020

Those selected will be required to reply stating their acceptance and provide official transcripts.

Compensation
Los Alamos National Laboratory offers very competitive compensation:
• 10-week salary of $7-13K (based on education and experience)
• Reimbursement for approved travel costs

See https://tinyurl.com/LANLSudentPrograms for more information on student programs.

Sponsor
The Parallel Computing Summer Research Internship is funded by the Information Science and Technology Institute (ISTI) at Los Alamos National Laboratory. ISTI facilitates scientific collaboration and scholarship.

Visit isti.lanl.gov to learn about other summer programs in data science, co-design, clusters, and computational physics.
The Parallel Computing Summer Research Internship is an intense 10-week program aimed at providing students with a solid foundation in modern high performance computing (HPC) topics integrated with research on real problems encountered in large-scale scientific codes.

**Description**
During the 10-week program, students will receive training and lectures on modern topics in HPC and software development, including
- parallel programming,
- programming models,
- algorithms,
- hardware architecture and its impact on code design choices,
- high-quality software development in collaborative environments,
- visualization and workflow.

Students will collaborate in teams to identify and investigate different computational problems within the scientific focus area, and implement solutions guided by mentors with scientific and computational expertise.

Students will work on cutting-edge HPC hardware and gain hands-on experience.

Students will gain experience in communicating their work through posters, oral presentations, and/or technical reports.

More information and past student research can be viewed at [http://parallelcomputing.lanl.gov](http://parallelcomputing.lanl.gov)

**Students**
This highly-selective program is designed for upper division undergraduates to early graduate students from all STEM fields. As a general guideline, students should have moderate experience with a compiled scientific computing language, such as C, C++, or Fortran and with the Linux operating system.

**Duration & Location**
The program will last ten weeks, June 1 through August 7, 2020 or June 8 through August 14, 2020, and will be held at Los Alamos National Laboratory.

Students must be available to live and work in Los Alamos, New Mexico.

Los Alamos National Laboratory provides cutting-edge supercomputers to solve complex scientific and national problems. Trinity, pictured here, provides 10^16 floating point operations to enable scientific discovery and innovation.