

Eligibility for SULI Internship:

- Must be a U.S. Citizen or Permanent Resident & at least 18 years old
- Must have a high school diploma or General Education Development (GED) at the time of applying
- Currently enrolled as a full-time undergraduate student at an accredited institution and completed at least one year at the time of applying
- At least one year of college-level Science, Technology, Engineering, & Math (STEM) courses
- Must have a minimum GPA of 3.0 on a 4.0 scale

For more information, visit the U.S. Department of Energy's Website:
<http://science.energy.gov/wdts/suli/>

To Apply:

- Complete the Department of Energy's online application:
<http://science.energy.gov/wdts/suli/how-to-apply/>
- Specify SLAC as your first choice

The Mission of the SULI Program is:

- To support students, especially those from disadvantaged backgrounds
- To provide participants an opportunity to assess science careers based on first-hand information and experience
- To provide students an opportunity to conduct cutting-edge research under the mentorship of a staff scientist or engineer in a national laboratory setting

SLAC National Accelerator Laboratory
2575 Sand Hill Road
Menlo Park, CA 94025-7015
slac.stanford.edu

SLAC Science Program

<http://www6.slac.stanford.edu/research/>

SLAC Educational & Community Outreach Programs:

<http://stanford.io/1acTf2h>

SLAC is operated by Stanford University for the U.S. Department of Energy Office of Science

SULI

Science Undergraduate Laboratory Internship

Spend the summer at SLAC National Accelerator Laboratory and be exposed to leading research in accelerator physics, optical sciences, materials sciences, catalysis and astrophysics.



SLAC National Accelerator Laboratory

Established in 1962 at Stanford University in Menlo Park, California, SLAC National Accelerator Laboratory is one of the world's leading research laboratories. Our facilities are used to explore the world around us – from discovering the basic building blocks and forces of matter to understanding the origin and evolution of the universe, with the potential to improve life for all of us. Our mission is to:

- Grow into a premier photon science laboratory
- Maintain our position as the premier accelerator laboratory
- Pursue strategic programs in particle physics, particle astrophysics and cosmology

The laboratory designs, constructs, and operates state-of-the-art electron accelerators and related experimental facilities. The laboratory's two-mile linear accelerator – the longest in the world – propels electrons to high energies and speeds of more than 99.999% the speed of light. The accelerator is now used to power the world's first X-ray free electron laser, allowing researchers to probe complex molecules and freeze atomic motions that reveal fundamental processes in chemistry, materials science and life itself.

SLAC is enriched by over 3,000 visiting scientists from universities, laboratories and companies from the United States and abroad.



Science Undergraduate Laboratory Internship (SULI)

SLAC has an exciting program funded by the U.S. Department of Energy, which offers an 8 or 9-week summer internship for undergraduate students to conduct research at the laboratory.



During the internship, students conduct research while being mentored by a staff scientist or engineer. Students will gain first-hand experience in a research environment that has led to six Nobel Prizes in physics and chemistry. Students work at a world-renowned laboratory that specializes in research in particle-astrophysics, novel particle accelerators, and photon sciences that cover a range of diverse fields from ultrafast dynamics to structure and functioning of proteins. During the internship, students work with a scientist or engineer (mentor) on a project related to the laboratory's research program.

Typical research projects include:

- Understanding the nature of Dark Matter
- Computational studies of photovoltaic solar cells
- X-ray crystallography studies of proteins

Students will also participate in scientific lectures and tours of local research laboratories

and industrial sites in the San Francisco Bay Area and in Silicon Valley.

Students who are majoring in physical sciences, engineering, or computer science are encouraged to apply. A small number of positions are also open for students in

chemistry and biochemistry.

At the conclusion of the program, students write a paper and make a brief presentation on their projects.

Students selected for the internship receive:

- Stipends
- Travel expenses
- Free housing on Stanford University campus

SLAC particularly encourages applications to this program from students belonging to groups underrepresented in physical science careers, including women, minority students, or low-income students.

If you have any questions, please contact Maria Mastrokyriakos at 650.926.2265 or mmastro@slac.stanford.edu.

Please visit the SLAC SULI Program Website for more information: <http://stanford.io/1ebwSfb>