Student Opportunities at Lawrence Livermore National Laboratory

LLNL offers paid internships and sponsors fellowships for undergraduate and graduate students

**UNDERGRADUATE**

**HPC Cluster Engineer Academy:** Undergraduate interns spend nine weeks learning the basics of cluster engineering and system installation under the guidance of LLNL experts and gaining direct experience with running and maintaining high-performance computing systems. [https://computation.llnl.gov/hpc-cluster-engineer-academy](https://computation.llnl.gov/hpc-cluster-engineer-academy)

**UNDERGRADUATE and GRADUATE**

**Atmospheric, Earth, and Energy Science Internship:** Undergraduate and graduate students earn practical research experience by working with mentors on projects in geoscience and atmospheric science. [https://pls.llnl.gov/aeed](https://pls.llnl.gov/aeed)

**Center for Global Security Research Student Intern:** Engages undergraduate and graduate students in practical research experience to support United States policy and decision makers in developing strategies for national and international security. [https://cgsr.llnl.gov/research-internships](https://cgsr.llnl.gov/research-internships)

**Computation Scholars Program:** Computation offers undergraduate and graduate students the opportunity to gain research experience and work with Laboratory science and engineering mentors through our internship program. [https://computing.llnl.gov/careers/internships](https://computing.llnl.gov/careers/internships)

**Data Science Summer Institute:** This program offers data science advanced undergraduate and graduate students the opportunity for a 12-week summer internship working on real problems that matter to the nation. [https://data-science.llnl.gov/dssi](https://data-science.llnl.gov/dssi)

**High-Energy-Density Physics Summer Student Program:** Opportunities for students perform experimental, theoretical, and computational research in disciplines such as astrophysics, hydrodynamics, turbulence, plasma physics, inertial confinement physics, and radiation/particle transport. [https://wci.llnl.gov/careers/students](https://wci.llnl.gov/careers/students)

**National Ignition Facility and Photon Science Student Internship Program:** Opportunities for undergraduate and graduate-level students to engage in cutting-edge scientific research in lasers, plasma physics, electro-optics, software development, and optical, x-ray, and nuclear instrument development and testing. [https://lasers.llnl.gov/education/opportunities/student-internship](https://lasers.llnl.gov/education/opportunities/student-internship)

**Materials and Chemistry Institute (MaCI) Summer Program:** Undergraduate and graduate students spend 10–12 weeks gaining hands-on experience in materials synthesis, materials characterization, materials processing, analytical chemistry, actinide materials science, optical materials science, electrochemistry, materials chemistry, and physics. [https://pls.llnl.gov/maci](https://pls.llnl.gov/maci)

**GRADUATE**

**Computational Chemistry and Materials Science Summer Institute:** Graduate students gain experience in the development and application of methods in computational materials science, computational chemistry, and other related areas of computational science. [https://pls.llnl.gov/ccms](https://pls.llnl.gov/ccms)

**Graduate Research Scholar Program:** Top Ph.D. students are granted appointments of up to four years to conduct research of interest to the Laboratory while completing their thesis. [https://lgsp.llnl.gov/](https://lgsp.llnl.gov/)

**The Nondestructive Characterization Institute (NCI):** Faculty and graduate students can help NCI solve a wide range of multidisciplinary problems using X-ray & neutron computed tomography, ultrasonics, microwaves, eddy current, inverse problems, signal & image processing, machine learning, data science, modeling & simulations. Faculty & students have the opportunity to acquire & analyze data, and interact with experts. [https://nci.llnl.gov](https://nci.llnl.gov)

**Seaborg Nuclear Forensics Summer Internship Program:** This 8-week summer program offers graduate students the opportunity to work directly with leading LLNL researchers on projects in the areas of nuclear forensics, nuclear chemistry, and environmental radiochemistry. [https://seaborg.llnl.gov/career-opportunities](https://seaborg.llnl.gov/career-opportunities)
Externally Sponsored Student Programs

UNDERGRADUATE
Student Undergraduate Laboratory Internships (SULI): Encourages undergraduate students to pursue STEM careers by providing research experiences at DOE laboratories. https://science.osti.gov/wdts/suli

Community College Internships (CCI): Encourages community college students to enter technical careers relevant to the DOE mission by providing technical training experiences at DOE laboratories. https://science.energy.gov/wdts/cci/

UNDERGRADUATE and GRADUATE
Minority Serving Institution Internship Program (MSIIP): Provides undergraduate or graduate students attending a participating Minority Serving Institution the opportunity to spend 10 weeks in summer working at an NNSA laboratory. https://www.energy.gov/nnsa/nnsa-minority-serving-institution-partnership-program


Mickey Leland Energy Fellowship (MLEF) Program: Provides students with educational opportunities to gain real-world, hands-on research experience with the Department of Energy’s (DOE) Office of Fossil Energy. http://www.energy.gov/fe/mlef

GRADUATE
DOE Scholars Program: Introduces students to DOE’s mission and operations. https://orise.orau.gov/doescholars/

DOE office of Science Graduate Student Researcher Program: Provides graduate thesis research opportunities at DOE laboratories in areas that address scientific challenges central to the Office of Science mission. https://science.energy.gov/wdts/scgsr/

DOE NNSA Stewardship Science Graduate Fellowship: Students planning to conduct research in a science or engineering discipline related to high-energy-density physics, nuclear science, or materials under extreme conditions and hydrodynamics are eligible for this fellowship. https://www.krellinst.org/ssgf/

DOE Computational Science Graduate Fellowship: Students participating in this fellowship employ high-performance computing for discovery in disparate disciplines. https://www.krellinst.org/csgf/

DOE NNSA Laboratory Residency Graduate Fellowship: Financial support is provided to talented individuals whose study and research is accompanied by extended, practical work experience at one or more of four DOE NNSA facilities. https://www.krellinst.org/lrgf/