

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>

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/aed>

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>

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>

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>

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>

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>

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/mac>

GRADUATE

Computational Chemistry and Materials Science Summer

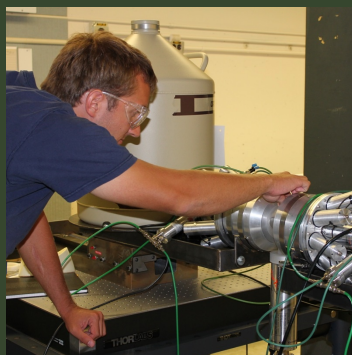
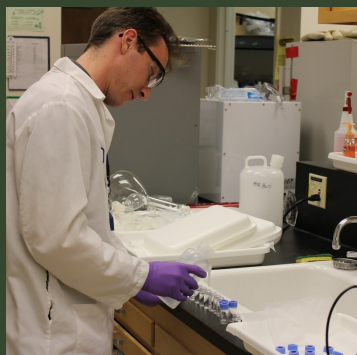
Institute: Graduate students gain experience in the development and application of methods in computational materials science, computational chemistry, and other related areas of computational science. <https://pls.llnl.gov/ccms>

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/>

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>

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>



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/ccli/>

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>

Homeland Security-STEM: The Department of Homeland Security sponsors a 10-week summer internship program for students majoring in homeland security-related STEM disciplines at federal research facilities around the country.

<https://www.ornl.gov/dheducation/internships/application.html>

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.ornl.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/>

