



Livermore Lab
FOUNDATION

The Power of Science

The Livermore Lab Foundation (LLF), a 501(c)(3) nonprofit organization created in 2016, is dedicated to advancing scientific knowledge and inspiring next generation scientists and engineers.

The Foundation carries out its mission by seeking philanthropic contributions to support scientific education, research and innovation occurring at Lawrence Livermore National Laboratory (LLNL), a U.S. Department of Energy facility in Livermore, California.

While much of the Lab's mission is focused on national security, there are dual-use applications of its work for broader public benefit. Groundbreaking science at LLNL is already addressing some of society's greatest challenges – and LLF provides a mechanism for private foundation and philanthropic support to leverage the Lab's unique expertise and facilities.

Opening the Door to the Future

The Foundation is working to inspire and open the door to the next generation of scientists and engineers by supporting diverse Science, Technology, Engineering and Math (STEM) learning opportunities at LLNL. These programs provide access to Lab facilities and mentors, as well as direct financial assistance for students, and introduce students to the excitement of a career in STEM. Programs include:

GIRLS WHO CODE – BIG! (VIA SUPERCOMPUTERS)

By focusing on one of Livermore Lab's core strengths and a strong partnership with the Livermore Valley Joint Unified School District, local high school students have access to big data technology and the opportunity to learn programming on some of the world's most powerful supercomputers. Students are able to take the computer hardware they build back to their own schools – providing secondary learning with their classmates. This program has been funded in part by dedicated senior women leaders from the Laboratory – many of whom also serve as mentors to the participants throughout the school year.

SCHOLARSHIPS, INTERNSHIPS AND MENTORS

In addition to providing exposure to professional STEM fields via high school programs, the Foundation is dedicated to supporting undergraduate and graduate students with direct funding, allowing them more time for research, studies and their ultimate success in scientific careers. LLF scholarships support early career women scientists, as well as students from diverse and underserved populations, and involve direct mentor support, internships, and continued access to Laboratory facilities.

HONORING STUDENT RESEARCH

The Foundation works closely with LLNL's summer college internship programs to recognize innovative student research and the top presenters at the annual Student Poster Symposium. This important validation often serves as a precursor for talented students to continue their pursuit of important scientific theories.



Advancing Research Innovations

The Foundation enables additional philanthropic and foundation support of LLNL's game changing science, innovative research and technological accomplishments that are addressing a myriad of societal challenges. Current LLNL-LLF collaborations include:

CRITICAL DISEASE AND HEALTH CARE ISSUES

The Foundation is working with the ALS Cure Project and others to identify the causal factors and biomarkers associated with ALS, also known as Lou Gehrig's disease. LLNL's unique supercomputing, data analytics and research capabilities can help accelerate our understanding of the disease and assist new therapies and treatments.

CLIMATE SCIENCE: CAN CALIFORNIA BECOME CARBON NEUTRAL BY 2045?

The simple answer is yes – thanks to a first-of-its-kind study by LLNL that identifies opportunities and technologies to eliminate carbon dioxide (CO₂) emissions and help California reach its climate goals. LLNL's portfolio of approaches will serve as a resource and policy guide for industry, academia and government representatives, as well as public and private investments. The *Getting to Neutral: Options for Negative Carbon Emissions in California* report was funded by LLF with support from the ClimateWorks Foundation.

Supporting Science Solutions

The Lab's unique scientific and multi-disciplinary capabilities underpin high impact research and discovery that's occurring in a myriad of scientific and engineering fields. This expertise is addressing some of society's greatest challenges and most pressing issues. Contact the Livermore Lab Foundation to provide additional philanthropic support. Help us change the future by harnessing the power of science.

Visit livermorelabfoundation.org or contact us via email at info@livermorelabfoundation.org to learn more.

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