The Power & Promise of Science

The **Livermore Lab Foundation** (LLF) was established in 2016 as an independent key philanthropic partner with Lawrence Livermore National Laboratory (LLNL), providing mechanisms for public and private investments, grants and philanthropic gifts that support research, innovation, workforce and STEM education initiatives at the Lab. The Foundation also has an affiliation agreement with the University of California, and collaborates with many other leading academic institutions.

The power of science is realized at the intersection of the LLF's partnership with the world-class research and innovation taking place at LLNL. The Lab's science and technology on a mission – with leading-edge experimental capabilities, unparalleled tools and groundbreaking research – addresses some of today's greatest challenges, from climate and energy resilience to biosecurity and human health.

Our Impact Areas

CLIMATE RESILIENCE

LLF collaborates with LLNL and other partners to address technology, policy, and community solutions to achieve mid-century carbon neutrality goals. LLF supports reports like _Getting to Neutral_ that identified suites of technology to achieve a net-zero greenhouse gas economy by 2050. LLF also funds a variety of public outreach and community engagement efforts featuring LLNL experts, such as hosting free community symposiums to share the _Roads to Removal_ report or developing an educational toolkit to bring rigorous and relevant climate and energy discussions to classrooms throughout California.

NEURODEGENERATIVE DISEASE

LLF leverages LLNL's unique supercomputing, bioengineering, and biosciences core competencies to accelerate collective efforts to diagnose, understand, and treat neurodegenerative diseases like Amyotrophic Lateral Sclerosis (ALS), Alzheimer's, Multiple Sclerosis, and Parkinson's. To date we've funded early-stage projects focused on biomarker identification, multimodal data analytics, disease mechanisms and therapeutic interventions that are yielding important insights into the myriad of neurological diseases affecting a growing portion of our aging population.

FUTURE STEM LEADERS

LLF supports unique STEM fellowships that connect aspiring scientists and engineers with LLNL's premier resources and staff mentors. Our efforts focus on reaching underrepresented talent within the STEM field, especially first-generation college students or those with special circumstances or a financial need. We seek to place LLF Fellows with Lab teams engaged in the key research areas we fund. Our fellowships empower students to consider a rewarding and impactful career and contribute to the nation's critical STEM pipeline needed to solve issues of national and global importance.

FUSION ENERGY

Fusion has the potential to provide a reliable, abundant, safe, and clean energy source. Repeated achievement of fusion ignition at the National Ignition Facility (NIF) as part of the U.S. Department of Energy/National Nuclear Security Administration's Stockpile Stewardship Program has also established the fundamental scientific feasibility of laser-driven inertial confinement fusion as a path toward fusion energy. Advancing the nation's decadal vision of commercial fusion energy will require public-private collaboration. LLF is partnering with LLNL to explore ways to promote public understanding and provide student research opportunities, while also pursuing philanthropic investment.

Livermore Lab Foundation is a 501c3 nonprofit (Tax ID #81-2567763) and key philanthropic partner to Lawrence Livermore National Laboratory, a U.S. Department of Energy facility in Livermore, California.

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