

Design Physics Division - Postdoctoral Researchers John S. Foster, Jr. and Harold Brown Postdoctoral Fellowships

Lawrence Livermore National Laboratory

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Livermore, CA, USA

Full-time

Organization: Strategic Deterrence

Category: Postdoctoral/Fellowship

Employee Referral Bonus: Not applicable

Job Code 1: PDS.4 Lawrence Fellow Post Doc

Pre-Employment Drug Test: Required for external applicant(s) selected for this position (includes testing for use of marijuana)

Pre-Placement Medical Exam: A job-related pre-placement medical examination may be required

Position Type: Post Doctoral

Security Clearance: Anticipated DOE Q clearance (requires U.S. citizenship and a federal background investigation)

Company Description

Join us and make YOUR mark on the World!

Are you interested in joining some of the brightest talent in the world to strengthen the United States' security? Come join Lawrence Livermore National Laboratory (LLNL) where our employees apply their expertise to create solutions for BIG ideas that make our world a better place.

We are looking for individuals that demonstrate an understanding of working in partnership with team peers, who engage, advocate, and contribute to building an inclusive culture, and provide expertise to solve challenging problems.

Pay Rate

\$140,496 Annually

Please note that the pay range information is a general guideline only. Many factors are taken into consideration when setting starting pay including education, experience, the external labor market, and internal equity.

Job Description

We have two openings for our prestigious and distinguished postdoctoral fellowships in the Strategic Deterrence (SD) Directorate, the John S. Foster, Jr. Postdoctoral Fellowship and the Harold Brown Postdoctoral Fellowship. Named after the Laboratory's renowned physicists Dr. John S. Foster, Jr. and Dr. Harold Brown, these fellowships recognize individuals whose research aligns with the Laboratory's national security mission. Dr. Foster was a key figure in establishing Lawrence Livermore National Laboratory as essential to the nation's defense. He helped invent and then spearheaded the innovations that led to the modern stockpile, as well as introduced many important programs at the Laboratory that continue to this day. Dr. Brown was a nuclear deterrence pioneer and a former Lawrence Livermore National Laboratory director, as well as Secretary of Defense under President Jimmy Carter. An intellectual giant who led development of technologies that modernized nuclear deterrence and played integral roles during the most dramatic moments of the Cold War, Dr. Brown's life was indelibly intertwined with national security.

These prestigious postdoctoral fellowships will allow you to take your skills to the next level and apply them to solving the nation's most pressing science and engineering challenges. The purpose of these fellowships is to pursue groundbreaking science and to stimulate ideas for cross fertilization. Foster and Brown Fellows will participate in creative and independent research in an aspect of science and engineering relevant to the competencies at LLNL. Fellows participate in experimental, computational, and/or theoretical work, and will have access to LLNL's extensive computing facilities, talent pool, specialized laboratory facilities, and field equipment.

We invite PhD graduates from a variety of STEM fields (including, but not limited to, the various physics disciplines, engineering, experimental science, computational sciences, planetary science, chemistry, or material science) to apply for these distinguished postdoctoral fellowships. These opportunities are intended for individuals who have finished their PhD and wish to further develop their skills, knowledge, and/or abilities. These positions are in the Design Physics Division within the Strategic Deterrence (SD) Directorate.

These positions may offer a hybrid schedule, blending in-person and virtual presence. They may have the flexibility to work from home one or more days per week.

Our postdoctoral fellowships positions are atypical — we select highly qualified candidates based on demonstrated research aptitude and then customize the project

assignment to fit their abilities and interests as well as our needs. Recent projects have involved:

Physics of Inertial Confinement Fusion (ICF)

Turbulence and fluid instabilities

Atomistic and continuum models of transport

Planetary defense (asteroid deflection and impact modeling)

Diagnostic development

Computational solid and fluid dynamics

Chemical physics

Nuclear physics

Particle and radiation transport algorithm development

Artificial intelligence and uncertainty quantification

To learn more, visit our website at:

<https://dp-fellowships.llnl.gov>

In this role, you will

Conduct research in a topical area using theory, experiment, and/or simulation tools.

Pursue independent (but complementary) research interests and interact with a broad spectrum of scientists internally and externally to the Laboratory.

Collaborate with others in a multidisciplinary team environment to accomplish research goals.

Organize, analyze, and present research results in LLNL seminars and in major scientific conferences.

Develop new tools, algorithms, and/or design new experiments to further our scientific understanding.

Publish research results in peer-reviewed scientific or technical journals, and present results at external conferences, seminars and/or technical meetings.

Support plans to promote diversity, equity, and inclusion within the program.

Perform other tasks as assigned.

Qualifications

Ability to secure and maintain a U.S. DOE Q-level security clearance which requires U.S. citizenship.

PhD degree in a relevant Science Technology Engineering Mathematics (STEM) or related discipline.

Experience in high-quality research in a relevant field, demonstrating both detailed understanding and a broad perspective.

Creativity, exceptional ability, and significant proven accomplishments in experimental science, numerical simulations and modeling, and/or the application of theoretical techniques.

Experience developing innovative solutions to scientific and technical problems.

Ability to develop independent research through a proven track record of scientific accomplishment and/or as demonstrated through publication of peer-reviewed literature.

Proficient verbal and written communication and interpersonal skills to collaborate effectively in a multidisciplinary team environment, author technical and scientific reports and papers, and present and explain technical information.

Qualifications we desire

Demonstrated ability/commitment to valuing diversity, equity, and inclusion principles in the workplace.

Additional Information

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Position Information

This is a Postdoctoral appointment with the possibility of extension to a maximum of three years, open to those who have been awarded a PhD at time of hire date.

Why Lawrence Livermore National Laboratory?

Included in 2024 Best Places to Work by Glassdoor!

Flexible Benefits Package

401(k)

Relocation Assistance

Education Reimbursement Program

Flexible schedules (*depending on project needs)

Inclusion, Diversity, Equity and Accountability (IDEA) - visit <https://www.llnl.gov/diversity>

Our core beliefs - visit <https://www.llnl.gov/diversity/our-values>

Employee engagement - visit <https://www.llnl.gov/diversity/employee-engagement>

Security Clearance

This position requires a Department of Energy (DOE) Q-level clearance. If you are selected, we will initiate a Federal background investigation to determine if you meet eligibility requirements for access to classified information or matter. Also, all L or Q cleared employees are subject to random drug testing. Q-level clearance requires U.S. citizenship.

Pre-Employment Drug Test

External applicant(s) selected for this position must pass a post-offer, pre-employment drug test. This includes testing for use of marijuana as Federal Law applies to us as a Federal Contractor.

Pre-Placement Medical Exam

A job related pre-placement medical examination may be required.

How to identify fake job advertisements

Please be aware of recruitment scams where people or entities are misusing the name of Lawrence Livermore National Laboratory (LLNL) to post fake job advertisements. LLNL never extends an offer without a personal interview and will never charge a fee for joining our company. All current job openings are displayed on the Career Page under "Find Your Job" of our website. If you have encountered a job posting or have been approached with a job offer that you suspect may be fraudulent, we strongly recommend you do not respond.

To learn more about recruitment scams: <https://www.llnl.gov/sites/www/files/2023-05/LLNL-Job-Fraud-Statement-Updated-4.26.23.pdf>

Equal Employment Opportunity

We are an equal opportunity employer that is committed to providing all with a work environment free of discrimination and harassment. All qualified applicants will receive consideration for employment without regard to race, color, religion, marital status, national origin, ancestry, sex, sexual orientation, gender identity, disability, medical condition, pregnancy, protected veteran status, age, citizenship, or any other characteristic protected by applicable laws.

We invite you to review the Equal Employment Opportunity posters which include EEO is the Law and Pay Transparency Nondiscrimination Provision.

Reasonable Accommodation

Our goal is to create an accessible and inclusive experience for all candidates applying and interviewing at the Laboratory. If you need a reasonable accommodation during the application or the recruiting process, please use our online form to submit a request.

California Privacy Notice

The California Consumer Privacy Act (CCPA) grants privacy rights to all California residents. The law also entitles job applicants, employees, and non-employee workers to be notified of what personal information LLNL collects and for what purpose. The Employee Privacy Notice can be accessed here.

**For full application instructions and position description, visit
<https://apptrkr.com/5454290>**

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