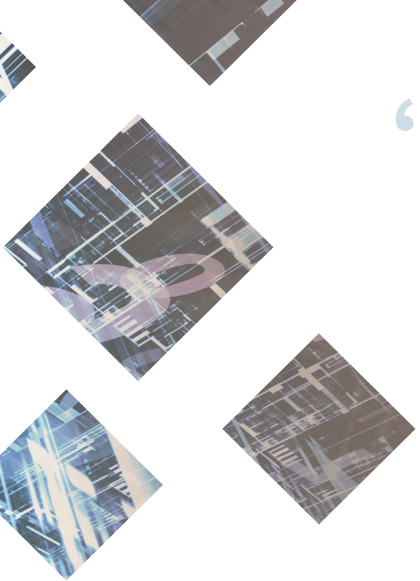
CASC

Center for Applied
Scientific Computing

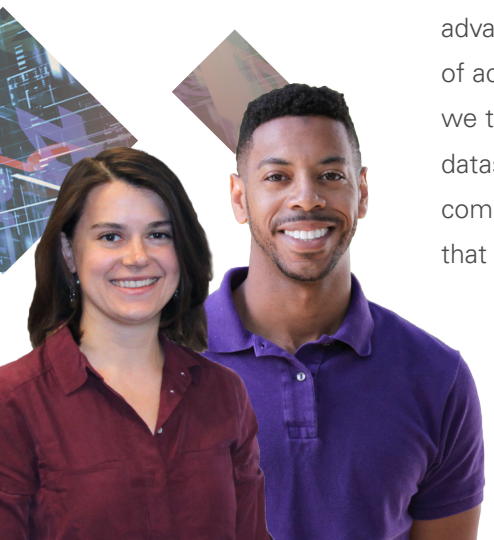
Lawrence Livermore
National Laboratory



"CASC is one of the best places in the country for HPC research."

Making a Difference

CASC is a hub for computing research at Lawrence Livermore National Laboratory (LLNL). For more than 20 years, our research and development in mathematics, computer science, computational science, and data science has promoted national security and advanced basic science. With a unique blend of academic collaboration and mission focus, we take on epic projects—with complex datasets, challenging problems, massive computing systems—and we produce results that matter to the nation and the world.



Researching at the Apex of Science

Scientists in CASC help LLNL confront significant national challenges: protecting against biological and cyber threats, ensuring the safety of the nuclear stockpile, understanding climate change, and more. CASC is home to world-class researchers, who use LLNL's massive computational capabilities to help solve some of the most challenging problems in computational science. Our focus on LLNL missions and our close connections to the scientific community have been the perfect blueprint for progress and innovation.

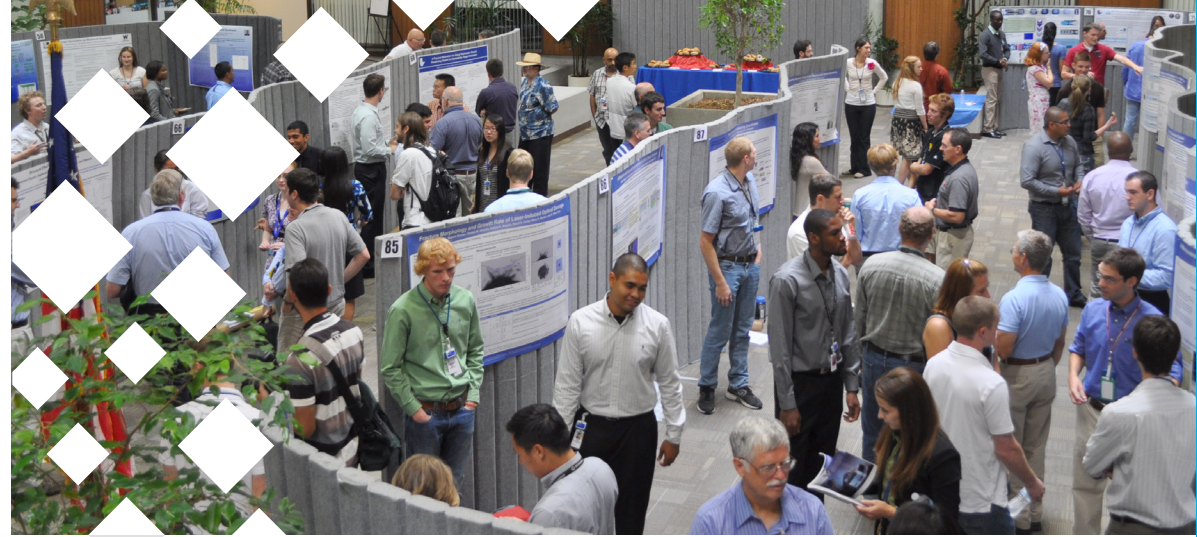
CASC

Teaming Up for Success

"I like working for CASC because it gives me an opportunity to work halfway between research and development."

Partnerships are the key to CASC's success. Our researchers work in interdisciplinary teams with other LLNL scientists, academic partners, and industry. Together, we solve problems by creating:

- Sophisticated models of complex physical processes;
- Advanced algorithms and mathematical libraries;
- State-of-the-art tools that enable scientists to run their simulations on the largest computers in the world; and
- New visualization and analysis techniques that provide insight and knowledge discovery from massive datasets.



At CASC, you become part of a dynamic, supportive team from the very start. We offer flexibility to move between projects, opportunities to pursue new research, access to some of the most advanced computing facilities in the world, and, most importantly, the thrill of knowing you're contributing to pioneering science.

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"CASC provides a unique opportunity to balance open and publishable research with having a direct impact on the Laboratory's mission. On a day-to-day basis, we can achieve both goals."

The Postdoc Experience

CASC's Postdoctoral Research Program is an essential part of our world-class research community. Postdocs bring energy and new ideas to our projects while preparing for the next step in their careers.

- Collaborate with a mentor and other LLNL scientists and engineers.
- Work on challenging, important problems.
- Advance your career with 25% self-directed funding.

Where can you go from here?

A CAREER AT LLNL
Many of our postdocs become staff scientists in CASC or elsewhere at LLNL.

INDUSTRY
The experience you'll get working on real-world problems and state-of-the-art equipment is hard to match at any university.

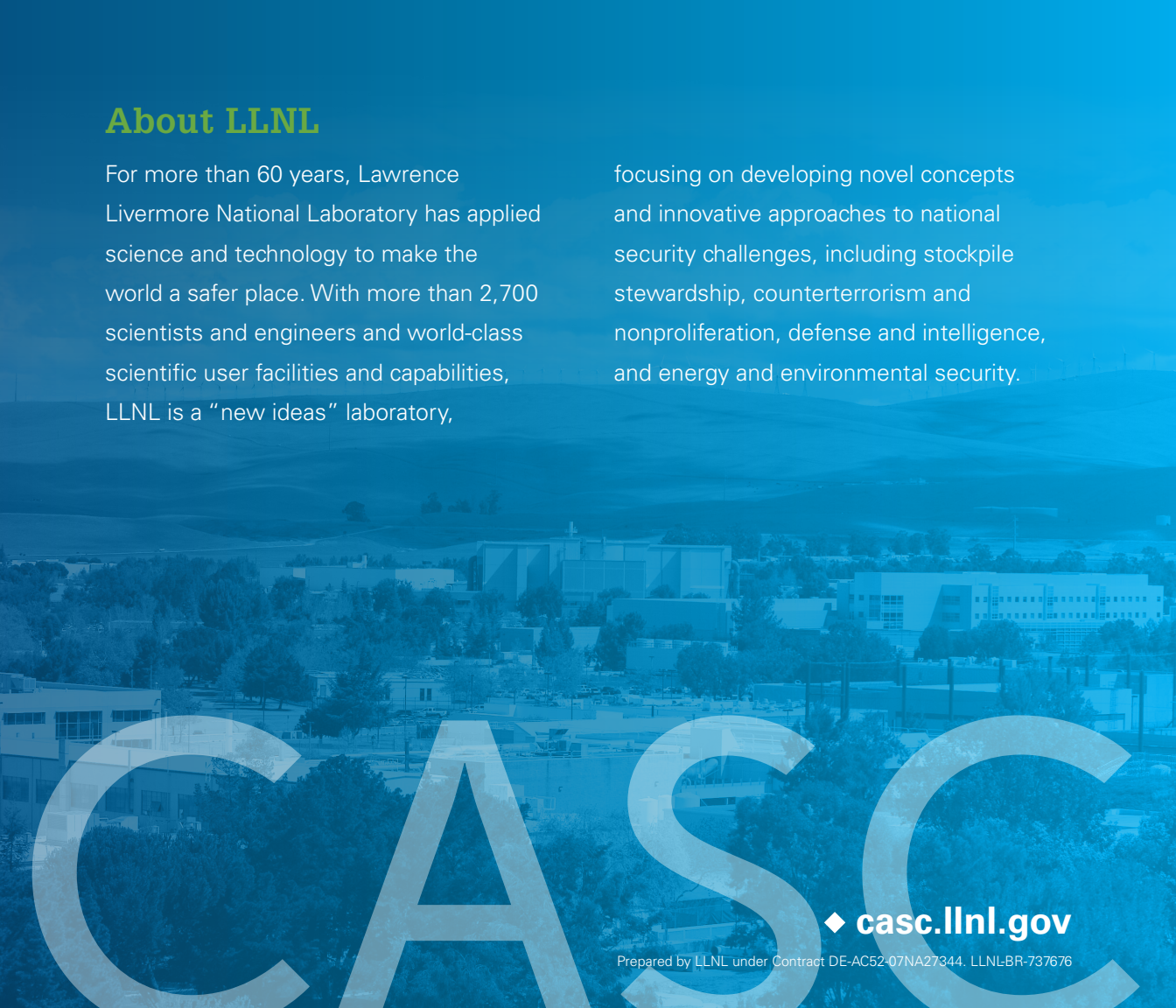
ACADEMIA
You'll have the opportunity to develop your research interests, publish your work, and build your professional network—all essential to landing a faculty position.

Apply today!
- **casc.llnl.gov**

EXPERIENCE

About LLNL

For more than 60 years, Lawrence Livermore National Laboratory has applied science and technology to make the world a safer place. With more than 2,700 scientists and engineers and world-class scientific user facilities and capabilities, LLNL is a "new ideas" laboratory, focusing on developing novel concepts and innovative approaches to national security challenges, including stockpile stewardship, counterterrorism and nonproliferation, defense and intelligence, and energy and environmental security.



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