

Location: Livermore, CA
Full Time, Temporary

What Your Job Will Be Like

Are you looking to do creative and meaningful research at the intersection of biology and computational science? Do you want to engage in research that supports the development of bioscience and engineering? Sandia's Biotechnology and Bioengineering Department is seeking a highly dedicated and innovative Postdoctoral Appointee to join the Bioscience team in Livermore, California.

The selected candidate will develop and evaluate machine learning algorithms to correlate genomic sequence variations and other molecular characteristics with downstream detection success. They will work on multi-disciplinary teams with a wide range of experts to conduct state-of-the-art research in biology, computational science, and engineering. The chosen individual will have the opportunity to be on the leading edge of computational science and biotechnology research and development to better prepare for emerging, evolving, and engineered biothreats.

On any given day, you may be called on to:

- Work with physics- and chemistry-based modeling experts to develop strategies for extracting and engineering features
- Develop data science tools for analyzing and interpreting biological data
- Devise innovative computational or machine learning approaches for predictive biology applications
- Mentor technologists and interns
- Work collaboratively to execute, track, and refine project goals with a multidisciplinary team that may include members from other national labs, universities, and industry
- Communicate research by publishing scientific papers in peer-reviewed journals and presenting findings at seminars and conferences
- Contribute to new research proposals

The Postdoctoral Appointee works onsite in California. The salary is set for this position at \$99,000 annually.

Qualifications We Require

- Recent PhD in computational biology, bioinformatics, computer science, machine learning, artificial intelligence, bioengineering, or related field with an emphasis on building, evaluating, or applying predictive models
- Programming knowledge, including scripting in a widely-used languages (such as Python, R, C++, MySQL)
- Record of strong technical contributions and excellent verbal and written communication skills, as demonstrated by peer-reviewed publications and/or conference presentations

Qualifications We Desire

- Familiarity with machine learning and bioinformatics tools
- Experience using statistics and data science for biological applications
- Molecular biology/microbiology skills (e.g., PCR, nucleic acid extraction, immunoassays, bacteria culture)

Apply online at:
sandia.gov/careers
Job #: 691091

About Sandia:

Sandia National Laboratories is the nation's premier science and engineering lab for national security and technology innovation, with teams of specialists focused on cutting-edge work in a broad array of areas. Some of the main reasons we love our jobs:

- Challenging work with amazing impact that contributes to security, peace, and freedom worldwide
- Extraordinary co-workers
- Some of the best tools, equipment, and research facilities in the world
- Career advancement and enrichment opportunities
- Flexible work arrangements for many positions include 9/80 (work 80 hours every two weeks, with every other Friday off) and 4/10 (work 4 ten-hour days each week) compressed workweeks, part-time work, and telecommuting (a mix of onsite work and working from home)
- Generous vacations, strong medical and other benefits, competitive 401k, learning opportunities, relocation assistance and amenities aimed at creating a solid work/life balance*

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*These benefits vary by job classification.

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About Our Team

The Biotechnology and Bioengineering Department, located in Livermore, CA, performs both basic and applied biological and bioengineering research with broad applications in national security, biodefense, health security, climate, and energy security. Our research in virology, microbiology, immunology and bioinformatics, is addressed by advanced technology development including CRISPR/Cas technologies, antibody engineering, advanced omics, synthetic biology, and advanced materials, and nanotechnology. Our department is integrated into the highly multidisciplinary Applied Biosciences and Engineering Group, comprised of researchers with expertise in many disciplines of biology (molecular biology, microbiology, virology, immunology, biochemistry), chemistry (analytical, organic, physical), computational science (bioinformatics, machine learning, computational chemistry), and engineering (chemical, mechanical, biomedical).