



POSITION: Postdoctoral Appointee - Informatics

JOB ID: 641145

LOCATION: Livermore, CA

Sandia National Laboratories is the nation's premier science and engineering lab for national security and technology innovation. We are a world-class team of scientists, engineers, technologists, postdocs, and visiting researchers—all focused on cutting-edge technology, ranging from homeland defense, global security, biotechnology, and environmental preservation to energy and combustion research, computer security, and nuclear defense. To learn more, visit <http://ca.sandia.gov/>.

DEPARTMENT DESCRIPTION

The Informatics and Systems Assessments department is focused on applications of interest to national security. We conduct research in information security engineering as well as fundamental computer science and mathematics. The specialties of our technical staff represent a wide range of disciplines including machine learning, linear and multilinear algebra, cloud-based data analysis, binary reverse engineering, network protocol analysis, and botnet/malware analysis and mitigation. Our researchers regularly publish their work in leading journals and conferences. Our work is funded by various U.S. government agencies, including the Department of Energy.

JOB DESCRIPTION

We have multiple openings for postdoctoral researchers in computer science, computer engineering, mathematics, and statistics. We are particularly looking for experts in informatics and data sciences, numerical mathematics (especially linear algebra), network and graph algorithms, and cyber defense. The successful applicant will be expected to conduct innovative research, to develop open-source software, to present his or her findings at leading conferences and workshops, and to publish his or her results in leading journals. This postdoctoral position is for motivated and enthusiastic individuals with a background in computer science, mathematics, statistics, or related areas.

QUALIFICATIONS

Required:

(1) Advanced degree (Ph.D. or equivalent) in computer science, mathematics, statistics, or a related area, with a strong record of academic performance; (2) ability to work in a collaborative research environment; (3) evidence of relevant research expertise in the form of technical publications, presentations, software, and/or knowledge of applications; (4) software development competence in Java, C++, or a related language; (5) proficiency in solving problems, prioritizing work, and making decisions; (6) excellent written and oral communication skills.

Desired:

(1) Expertise in one or more of the following areas: machine learning, data mining, graph analysis, linear algebra, applied statistics, optimization, computational combinatorics, discrete mathematics, cyber defense; (2) software engineering proficiency, including an understanding of object-oriented programming techniques and best practices, Hadoop MapReduce and/or high-performance computing experience; (3) experience with standard research tools such as LaTeX, MATLAB, PowerPoint; (4) a background in solving practical problems in science and engineering that involve encounters with real-world data; and (5) evidence of professional service to the community, such as engagement in student service activities or seminar/workshop organization.

ABOUT SANDIA

Sandia provides employees with a comprehensive benefits package that includes medical, dental, vision, and a 401(k) with company-match. Our culture values work-life balance; we offer programs such as flexible work schedules with alternate Fridays off, on-site fitness facilities, and three weeks of vacation. In addition, Sandia/California enjoys close proximity to San Francisco, the Silicon Valley, first-tier universities, and diverse cultural and year-round recreational opportunities.

HOW TO APPLY

Visit <http://tinyurl.com/7xdwke8> and click 'Apply Now.'

Sandia National Laboratories is an Equal Opportunity Employer M/F/D/V. If this position requires a security clearance granted by the U.S. Department of Energy (DOE), U.S. citizenship and employee eligibility for clearance processing will be required at the time of hire. If you hold dual citizenship and accept a job offer for a position that requires a DOE-granted security clearance, you may be asked by DOE to renounce your foreign citizenship and retain only your U.S. citizenship.