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SLAC National Accelerator Laboratory is one of 17 Department of Energy (DOE) National Laboratories, and operated by Stanford University on behalf of the DOE. SLAC develops and operates some of the world's premier science facilities, including the first hard X-ray free-electron laser. Research at SLAC explores the structure and function of matter and the properties of energy, space and time, at the smallest and largest scales, all with the goal of solving problems facing society and advancing human knowledge.

Stanford University / SLAC National Accelerator Laboratory

Science and Engineering Associate (Engineering and X-Ray Operations)

Job

Requisition #: 2570

Classification: Science and Engineering Associate 1

Title:

Grade: I

Location: Menlo Park, CA (HQ)

of openings: 2

Description

POSITION OVERVIEW:

Do you enjoy collaborating with a diverse group of people to solve complex challenges? Does contributing to breakthrough discoveries in science and working with unique experimental instrumentation in a world-leading

scientific research environment excite you? The Engineering and X-Ray Operations Technical Support group at the LCLS is seeking a Science and Engineering Associate to join our team and provide support to Mechanical, Vacuum and Controls & Data systems for X-ray operations at the Linac Coherent Light Source (LCLS), a science Directorate at SLAC National Accelerator Laboratory. LCLS is the world's first hard X-ray free electron laser (FEL). LCLS is operated as an international user facility, attracting hundreds of scientists from around the world to conduct first-of-a-kind experiments to study fundamental processes of chemistry, technology, and life itself. A suite of 7 x-ray instruments for exploiting the unique LCLS scientific capabilities has been produced.

Our Technical Support team is responsible for providing installation and maintenance for various instrumentation and components such as motors, cameras, vacuum, power supplies, temperature control, x-ray cameras and waveform digitizers in support of the X-Ray infrastructure and Users operations. Our Technical Support team is also responsible for the Electrical Equipment Safety Inspection Program as well as the design, deployment and maintenance for Laser Safety Systems across the entire SLAC complex. As a member of the Technical Support group you will support operations involving multiple disciplines utilized in research and experimental activities. You may also participate in installation projects and provide area management for the LCLS science support labs. This position reports to the Technical Support Department Head.

If interested, please apply via this link:

<https://chk.tbe.taleo.net/chk01/ats/careers/requisition.jsp?org=SLAC&cws=1&rid=2570>

In addition to core duties, specific duties may include the following;

- Become familiar with the details of the x-ray instrument(s) in respect to controls and vacuum systems.
- Diagnose and resolve any problems that may arise with the instruments' controls and vacuum delivery systems, or troubleshoot issues at a first level and identify tasks requiring expert knowledge.
- Interact with and assist instrument scientists and users from across the world in the preparation for operations of their specific instruments.
- Install, troubleshoot, and ensure operation of new hardware-components, and instrumentation.
- Order, schedule, coordinate, and supervise the work of technicians and support staff.
- Participate the planning, procurement and installation cycles for new projects and installation.
- Be familiar with routing protocols and network structure.
- Installation, termination and testing of fiber optic cables.
- Perform other related activities as directed by the Technical Support Dept. Head.

JOB PURPOSE:

Participate in technical research utilizing and/or developing experimental equipment, devices, specimens, plans, designs, reports, and/or data analysis. May have supervisory responsibilities overseeing technicians and/or support staff.

CORE DUTIES*:

- Support scientific and research programs related to area of specialization; analyze data, monitor and oversee experimental process, and design and develop prototypes, specialized equipment, and/or systems.
- Modify, repair, and troubleshoot complex equipment and experimental systems.
- Prepare and review drawings, material lists, requisitions, job orders, engineering change requests, and other documents associated with development, fabrication, assembly, installations, and testing.
- Coordinate and work on scientific or engineering installations; plan and execute various phases of an operation, oversee schedule of equipment operations, and supervise routine maintenance.
- Acquire and maintain tools, equipment, and chemicals associated with experimental or engineering projects.
- Maintain documentation related to research studies and protocols, and perform administrative duties related to equipment and systems associated with research or engineering projects, as assigned.
- Liaise between researchers, students, technical staff, scientists, vendors, and other university staff; serve as a resource, providing training and practical guidance.
- Oversee the work of technicians and other staff associated with the group/projects, and provide guidance to

technicians, operators, and others working in particular scientific or engineering function area.

* - *Other duties may also be assigned*

MINIMUM REQUIREMENTS:

Education & Experience:

Associate degree or certificate of completion in a related engineering or related scientific discipline, or three years of equivalent work experience or combination of education and relevant experience.

Knowledge, Skills and Abilities:

- Experience applying scientific and engineering principles and practices to perform technical services and support.
- Experience with data analysis, experimental process, design, and development of prototypes, equipment, and/or systems related to area of specialization.
- Ability to write clear documentation, perform administrative duties, and research protocol maintenance related to research studies and/or scientific/engineering projects.
- Experience with software applications, systems, or programs relevant for the job.
- Ability to interpret and determine validity of data and check own work.
- Ability to communicate, liaise, and work with staff, students, faculty, and outside vendors.
- Ability to effectively supervise and train a diverse work staff.

Certifications and Licenses:

A valid California non-commercial driver's license and a good driving record.

SLAC CEmployee Competencies:

- **Effective Decisions:** Uses job knowledge and solid judgment to make quality decisions in a timely manner.
- **Self-Development:** Pursues a variety of venues and opportunities to continue learning and developing.
- **Dependability:** Can be counted on to deliver results with a sense of personal responsibility for expected outcomes.
- **Initiative:** Pursues work and interactions proactively with optimism, positive energy, and motivation to move things forward.
- **Adaptability:** Flexes as needed when change occurs, maintains an open outlook while adjusting and accommodating changes.
- **Communication:** Ensures effective information flow to various audiences and creates and delivers clear, appropriate written, spoken, presented messages.
- **Relationships:** Builds relationships to foster trust, collaboration, and a positive climate to achieve common goals.

Job-Specific Competencies

- **Nimble Learning:** Actively learns through experimentation when tackling new problems, using both successes and failures as learning fodder.
- **Plans and Aligns:** Plans and prioritizes work to meet commitments aligned with organizational goals.
- **Action Oriented:** Takes on new opportunities and tough challenges with a sense of urgency , high energy , and enthusiasm.

PHYSICAL REQUIREMENTS*:

- Frequently grasp lightly/fine manipulation, perform desk-based computer tasks, lift/carry/push/pull objects

that weigh up to 10 pounds.

- Occasionally stand/walk, sit, twist/bend/stoop/squat, grasp forcefully.
- Rarely kneel/crawl, climb (ladders, scaffolds, or other), reach/work above shoulders, use a telephone, writing by hand, sort/file paperwork or parts, operate foot and/or hand controls, lift/carry/push/pull objects that weigh >40 pounds.

** - Consistent with its obligations under the law, the University will provide reasonable accommodation to any employee with a disability who requires accommodation to perform the essential functions of his or her job.*

WORKING CONDITIONS:

- May be required to work extended days and rotating shifts when necessary.
- May be exposed to high voltage electricity, radiation or electromagnetic fields, lasers, noise > 80dB TWA, Allergens/Biohazards/Chemicals /Asbestos, confined spaces, working at heights >10 feet, temperature extremes, heavy metals, unusual work hours or routine overtime and/or inclement weather.

WORK STANDARDS:

- Interpersonal Skills: Demonstrates the ability to work well with Stanford colleagues and clients and with external organizations.
- Promote Culture of Safety: Demonstrates commitment to personal responsibility and value for safety; communicates safety concerns; uses and promotes safe behaviors based on training and lessons learned.
- Subject to and expected to comply with all applicable University policies and procedures, including but not limited to the personnel policies and other policies found in the University's Administrative Guide, <http://adminguide.stanford.edu>.

SLAC National Accelerator Laboratory is an Affirmative Action / Equal Opportunity Employer and supports diversity in the workplace. All employment decisions are made without regard to race, color, religion, sex, national origin, age, disability, veteran status, marital or family status, sexual orientation, gender identity, or genetic information. All staff at SLAC National Accelerator Laboratory must be able to demonstrate the legal right to work in the United States. SLAC is an E-Verify employer.

Final candidates are subject to background checks prior to commencement of employment at the SLAC National Accelerator Laboratory.

Internal candidates, who are selected for hire, may require degree verification and/or credit checks based on requirements of the new position.

For Clery Act Information click here: <http://www.stanford.edu/group/SUDPS/safety-report/security-authorities.shtml>

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