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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

Research Associate – Hard X-ray

Job

Requisition #: 2561

Classification:

Classification:

Research Associate - Experimental

Title:

Grade: **NA**

Location:

Menlo Park, CA (HQ)

of

openings: **1**

gs:

Description

POSITION OVERVIEW:

SLAC National Accelerator Laboratory (SLAC) is one of the world's premier research laboratories, providing an internationally leading capability in the form of its accelerator based light sources and its science programs, including the world's first hard x-ray free electron laser (xFEL) the LCLS. Linac Coherent Light Source (LCLS) a directorate of SLAC seeks a Research Associate to join our LCLS Hard X-Ray department. Members of this department are responsible for developing new instrumentation and methods as well as performing cutting edge ultrafast experiments

using hard x-ray beams from LCLS. As a Research Associate you will work on characterization methods for one of the World's brightest x-ray beams. You will develop and carry out specific X-ray laser experiments aimed primarily at better understanding and characterizing the extreme power densities achieved by a focused x-ray FEL beam. You will also help operate, develop, and utilize the LCLS Hard X-Ray instrumentations and facilities in support of related research and experimental efforts.

CORE DUTIES*:

- Develop and carry-out research understanding the unique x-ray beam conditions of LCLS.
- Develop and carry-out research utilizing ultrafast time resolved X-ray methods.
- Contribute to the science and user support program at LCLS.
- Assist in the development of new instrumentation and analysis methods for xFEL based studies.
- Work together with the diverse workforce at SLAC, external collaborators, and LCLS users.

** Other duties may also be assigned*

Note: The position is initially a two-year term with the possibility of renewal.

If interested, please apply via this link:

<https://chk.tbe.taleo.net/chk01/ats/careers/requisition.jsp?org=SLAC&cws=1&rid=2561>

MINIMUM REQUIREMENTS:

Education & Experience:

A Ph.D. in Physics, Chemistry, or related field. Experience utilizing and characterizing x-ray beam

Knowledge, Skills and Abilities:

- X-ray optics
- X-ray optical simulations
- Wave propagation
- Coherent x-rays
- Strong analytical and experimental skills.
- Demonstrated effective written and verbal communication skills.
- Demonstrated ability to work and communicate effectively with a diverse population.
- Demonstrated ability to work independently and in a team environment.

Experience in one or more of the following is desired but not required:

- DOE funded national lab research.
- User facility operations and research.

- X-ray and/or electron scattering and X-ray spectroscopy techniques.
- Optical laser/X-ray or electron pump-probe techniques.
- X-ray free electron laser based research.

Applicants will be evaluated on research experience and accomplishments in field of expertise.

SLAC Employee 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, team collaboration, and a positive climate to achieve common goals.

WORK STANDARDS:

- When conducting university business, must comply with the California Vehicle Code and Stanford University driving requirements.
- 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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