



POSITION DESCRIPTION

**Assistant or Associate Research Scientist or Engineer
Nuclear Nonproliferation**

Division of Atmospheric Sciences

Position 20-014

Rank 2 or 3

(12-month temporary appointment)

The Division of Atmospheric Sciences (DAS) of the Desert Research Institute (DRI) is seeking an Assistant or Associate Research Scientist or Engineer in the area of nuclear nonproliferation in support of a nascent seismic detection and characterization of explosive events. The successful candidate is expected to build a research program focusing on developing and implementing seismic techniques and analytics that build on DRI's strength in environmental sciences and advance the monitoring capabilities in the field of nonproliferation. The candidate will have demonstrated experience working with and developing instrumentation, large data analytics, and models that are used in remote monitoring applications. The candidate will also have demonstrated experience working with governmental agencies, especially the Department of Energy and individuals and entities within the DOA/NNSA National Laboratories and Nevada National Security Site. The candidate will also be responsible for planning and managing tests as a Quality Engineer including development of test requirements to mitigate technical risks and participation on review panels when requested. This is a 12-month temporary position but could lead to a regular career opportunity if additional funding becomes available.

DRI's faculty members are untenured, entrepreneurial and responsible for their own salaries from external grants and contracts. With a blend of academic rigor and private-sector pragmatism, DRI has earned a reputation for delivering rapid, high-quality environmental science in a businesslike fashion. The successful candidate will be encouraged to leverage DRI's existing research infrastructure that includes facilities, instrumentation, and expertise to build a program around research in the field of nuclear nonproliferation science. The position is to be filled at DRI's facility in Las Vegas, Nevada.

REQUIRED QUALIFICATIONS

- US citizenship
- At least MS. in Physics or a related field from an accredited institution
- Demonstrated expertise in designing/operating instrumentation, test protocols, and testing programs in the field of seismic science
- Demonstrated experience working with governmental agencies, especially the Department of Energy, and individuals and entities within the National Labs
- Demonstrated ability to work independently and as lead of a scientific team to fulfill project goals and meet project deadlines
- Excellent written and oral communication skills

PREFERRED QUALIFICATIONS

- 10+ years direct experience at senior scientist level or above working on nuclear programs pertaining to detection, measurement, and/or non-proliferation
- 10+ years of experience in communicating scientific findings to administrators and decision makers
- Peer-reviewed publications in a field relevant to this position
- Experience in application of remote monitoring science concepts to explosive detection & characterization
- Ph.D. in Physics or a related field from an accredited institution
- Demonstrable success in the development of new programs or research areas

- Fundamental understanding of non-proliferation science programs and policy
- Experience in conducting field measurements as part of a large, multi-institutional collaborative research team

CONDITIONS OF EMPLOYMENT

- US Citizenship is required and the ability to obtain and maintain a US Department of Energy security clearance is mandatory. Please note that subsequent re-investigations may be required.
- The successful candidate will be offered the position contingent upon passing a mandatory test for the absence of any illegal drugs (as defined in 10 CFR 707.4) as well as satisfactory credit, criminal and background investigations. Participation in an ongoing random drug testing program is also required.
- The individual who is offered and accepts this position must also provide, within 30 working days of his/her start date of the position, a copy of the transcript(s) up to the highest degree he/she acquired, as awarded by an accredited institute as recognized by the United States Department of Education and/or the Council on Higher Education Accreditation (CHEA).

ORGANIZATIONAL SUMMARY

Since 1959, DRI has stood at the forefront of understanding Earth's complex environmental systems, promoting preservation of diverse ecosystems, advancing responsible natural resource management, and improving human health and welfare throughout Nevada and around the world. More than 500 highly-skilled scientists, engineers, technicians and students are collaboratively focused on understanding and answering critical questions about global climate change, water quality and availability, air quality, sustainability of desert lands, life in extreme environments, and more.

SALARY / BENEFITS

Salaries are competitive and commensurate with qualifications. This position is eligible for DRI's benefits package and relocation assistance. See this link for a benefits overview: Temporary Faculty Benefits (<http://www.dri.edu/images/stories/TempFacBenSummFY18.pdf>).

INSTRUCTIONS TO APPLICANTS

To ensure full consideration, submit the following materials to recruit@dri.edu:

1. A cover letter detailing your career interest in this position, how you meet the qualifications highlighted in the announcement;
2. A current curriculum vitae;
3. Contact information for three professional/work-related references, to be contacted at the appropriate phase of the recruitment process based on applicant permission

Submissions **not** meeting these requirements will **not** be considered. For questions regarding this position, please call the recruiting office at 775-673-7332.

The Desert Research Institute (DRI) is an equal opportunity/ affirmative action employer and all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, age, sexual orientation, gender identity or expression, genetic information, national origin, political affiliation, disability status, protected veteran status or any other characteristic protected by law. DRI employs only U.S. citizens and persons lawfully authorized to work in the United States.

August 2017