

Scientist Position with Space Science and Applications Group at Los Alamos National Laboratory

The Space Science and Applications group (ISR-1) in the Intelligence and Space Research (ISR) division leads a variety of civilian and defense-related programs sponsored by DOE, DOD, NASA, and other US agencies. In support of these missions, we develop sensors to detect nuclear emissions and measure natural and man-made radiations in space. ISR-1 capabilities extend from mission concept to design and calibration, data analysis, simulation and modeling. ISR division capabilities include engineering design and fabrication, spacecraft integration, ground system support and on-orbit operation.

By providing satellite-borne gamma-ray, X-ray, and neutron detectors to the US government, ISR-1 supports monitoring of the atmosphere and near-Earth space for nuclear detonations. Similarly, our charged-particle detectors support measurement of the natural environment. We have an international reputation in the detection of nuclear phenomenology and in the data analysis, simulation and modeling of the natural environment. ISR-1 is engaged in a number of pioneering basic-science missions, greatly enhancing our research and contributing to our technological base. Our many postdocs and affiliates are key collaborators. These science programs cover several disciplines, including magnetospheric physics, planetary exploration, gamma-ray astrophysics, space situational awareness, and solar-terrestrial interactions.

The group is currently seeking scientists for ongoing programs and to develop future applied and basic science missions. We seek applicants with several of the following qualifications:

- past or current leadership role on a space science mission
- strong interest in development and application of innovative energetic radiation, plasma, or particle instruments
- record of recent publications in peer-reviewed journals, patents, or contributions to major reports
- demonstrated ability to secure funding for multi-year projects, supported by DOE, DOD, NASA, or other US agencies
- experience with mission and / or system design, performance modeling and assessment, requirements definition and specifications, integration and testing

- exceptional simulation and modeling skills in space plasma physics or radiation transport and effects

Candidates are expected to have a demonstrated ability to work independently and as a member of a team, with good communication skills. Applicants are encouraged to nurture university collaborations or industrial partnerships.

Scientist candidates are required to have a Ph.D. degree and a minimum of 3 years experience. Candidates must have the ability to obtain a DOE “Q” clearance. To obtain a clearance, an individual must be at least 18 years of age and be a U.S. citizen.

This position is offered at the Scientist 2 or 3 level, depending upon experience and qualifications.

Interested applicants should send their CV with a cover letter describing research interests to:

Dr. Brian L. Dougherty
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