

## Notice of Vacancy

### Postdoctoral Research Position – Optical Spectroscopy of PLZT Ceramics Institute for Shock Physics / Applied Sciences Laboratory Washington State University

The Institute for Shock Physics' (ISP) Applied Sciences Laboratory (ASL) at Washington State University has an immediate opening for a postdoctoral research associate to fabricate and characterize PLZT ceramics.

**Only applicants who are currently in the U.S.** and meet the following minimum qualifications will be considered for the position:

Minimum requirements:

- A very recent Ph.D. degree in Physics, Chemistry, Materials Science, Ceramic Science, Electrical Engineering or other closely related field
- Strong academic and research background related to optical properties of materials and/or ceramic processing and characterization
- Hands-on experimental experience with laser spectroscopy of transition metal ions in dielectrics or semiconductors
- Graduate or post-graduate experience at a U.S. Academic Institution or National Laboratory
- Excellent communication skills, both oral and written
- Good judgment, clear sense of purpose, and accountability

The ideal candidate will also have:

- Hands-on experience with the fabrication and characterization of PLZT or related ceramics

The ability and interest to pursue challenging, interdisciplinary problems, and the ability to deliver proof-of-concept results are essential. Individuals with a strong desire to work in applied research within a contract research organization, and who are comfortable working within a milestone-driven project-management environment are encouraged to apply. This is an ideal position for a creative, self-motivated individual.

The Institute for Shock Physics and the Spokane-based Applied Sciences Laboratory provide excellent opportunity for growth and professional success. The salary structure is nationally competitive. Other benefits include health/dental insurance, vacation/medical leave, retirement plans, and access to all University facilities. This position will be located on the WSU Spokane campus near downtown Spokane, Washington.

#### **THE APPLIED SCIENCES LABORATORY**

The Applied Sciences Laboratory (ASL) is a self sustaining, contract research organization that conducts a broad range of applied research projects for government agencies and private corporations, including the development of commercial applications.

The scientific underpinnings for these projects are in materials sciences, computational modeling and simulations, and optical sciences. ASL provides the intellectual and scientific foundation for fostering economic growth through strategic investments in the physical sciences, engineering, and advanced technologies.

Further information about ASL may be found at [www.asl.wsu.edu](http://www.asl.wsu.edu).

### **THE INSTITUTE FOR SHOCK PHYSICS**

Nearly 50 years of research innovations and activities in understanding the dynamic response of materials at Washington State University provide the foundation for the research activities in ASL. A multidisciplinary research organization within the College of Sciences, ISP undertakes a broad range of fundamental scientific activities related to understanding condensed matter response under dynamic and static high pressures. Atomic-to-continuum level understanding is the pervading theme of research activities that emphasize integration of innovative experiments with theoretical and computational advances. Multidisciplinary efforts that combine expertise in Physics, Materials Science, Chemistry, and Mechanical Engineering are underway to address several exciting and challenging scientific problems. In addition to the research faculty within the Institute, students and faculty from several departments within the Colleges of Sciences and Engineering and Architecture participate in the Institute's research projects. State-of-the-art experimental and computational facilities are available for studying physical and chemical phenomena over a large range of length and time scales. Excellent research interactions are in place with the DOE / NNSA National Laboratories. Further information about the Institute is available at [www.shock.wsu.edu](http://www.shock.wsu.edu).

### **WASHINGTON STATE UNIVERSITY**

Washington State University, one of the two research universities in the state, was founded in 1890 as the state's land-grant institution and is located in Pullman with regional campuses in Spokane, Vancouver and the Tri-Cities. It is a Carnegie Doctoral/Research Extensive University with a strong emphasis on excellence in research and education. Current enrollment is approximately 21,000 undergraduate, graduate, and professional student FTEs, with approximately 5,600 faculty and staff. The University offers approximately 4300 courses in 150 undergraduate, and more than 70 graduate, degree programs. Academically the University is organized into 10 colleges (Agriculture, Human, and Natural Resource Sciences; Business; Education; Engineering and Architecture; Honors; Liberal Arts; Nursing; Pharmacy; Sciences; Veterinary Medicine) and a Graduate School.

### **SPOKANE**

The Spokane region serves as the business, transportation, medical, industrial and cultural hub of the Inland Northwest, an area that comprises a population of more than 1.4 million people. This region is located on the east side of Washington State, 18 miles west of the Idaho state line and 100 miles south of the Canadian border. Spokane is 75 miles from Pullman. Washington State University has a location at the downtown River Point Campus location on the Spokane River with an enrollment of approximately 1,400 students in selected fields. Eastern Washington University, Gonzaga University and Whitworth College are nearby. The regional economy is incorporating the emergence of new technologies in research and education, health and bio-sciences, while maintaining traditional industries including agriculture, manufacturing and forestry. For more information on Spokane, please follow the following link: <http://www.visitspokane.com/>.

## APPLICATIONS

Applicants should submit a letter of application explicitly addressing the qualifications for this position and date of availability; detailed curriculum vitae; and the names, email, and addresses for three professional references to:

Dr. Hergen Eilers  
Applied Sciences Laboratory  
Washington State University  
PO Box 1495  
Spokane, WA 99210-1495  
Email: [asl.jobs@wsu.edu](mailto:asl.jobs@wsu.edu).

To ensure consideration, please specify the position (Postdoc: Spectroscopy of Ceramics) for which you are applying. We will begin reviewing submissions immediately and will continue to do so until the position is filled.

*WASHINGTON STATE UNIVERSITY IS AN EQUAL OPPORTUNITY/ AFFIRMATIVE ACTION EDUCATOR AND EMPLOYER. Members of ethnic minorities, women, special disabled veterans, veterans of the Vietnam-era, recently separated veterans, and other protected veterans, persons of disability and/or persons age 40 and over are encouraged to apply.*

*WSU employs only U.S. citizens and lawfully authorized non-U.S. citizens. All new employees must show employment eligibility verification as required by the U.S. Citizenship and Immigration Services.*

*Washington State University is committed to providing access and reasonable accommodation in its services, programs, activities, education and employment for individuals with disabilities. To request disability accommodation in the application process, contact Human Resource Services: 509-335-4521(v), Washington State TDD Relay Service: Voice Callers: 1-800-833-6384; TDD Callers: 1-800-833-6388, 509.-335-1259(f), or [hrs@wsu.edu](mailto:hrs@wsu.edu).*