

NOTICE OF VACANCY
Mechanical Engineer
for the ISP/Applied Sciences Laboratory



Description of Position

The Spokane-based Applied Sciences Laboratory (ASL) of the Institute for Shock Physics (ISP) at Washington State University has an immediate opening for a Mechanical Engineer.

This position is a full-time, 12-month (renewable year after year), Administrative/Professional position. The salary range is \$5,600 - \$6,767 per month, commensurate with the candidate's experience and qualifications. Other benefits include health/dental insurance, vacation/sick leave, and retirement plans.

Representative responsibilities:

This position has a focus on mechanical engineering and advanced materials research, including the development and processing of novel alloys and composites. Further responsibilities include:

1. Hands-on participation in the design and execution of a broad range of experimental projects, including processing, fabrication, and characterization of alloys and composites.
2. Design, construction, and maintenance of process equipment and testing systems.
3. Operation of process equipment, particularly melting and casting of reactive metals.
4. Maintenance, troubleshooting and calibration of the experimental facilities; ordering components, equipment and supplies; interactions with the machine shops and suppliers; working effectively in a team setting.
5. Contribute effectively to all aspects of the research projects and assist research faculty.
6. Conduct research experiments; document and prepare reports as appropriate.

Required qualifications:

A Bachelor's degree in an appropriate related scientific or engineering discipline and experience performing professional-level work with scientific or engineering research protocols. Any combination of relevant education and experience may be substituted for the educational requirement on a year-for-year basis. Experimental and analytical skills; understanding and knowledge of research theory; excellent organizational and project management skills.

- A recent Bachelor's degree in Engineering, or related field.
- Scientific background relevant to mechanical engineering, such as heat transfer and mechanics, and strong quantitative and analytical skills.
- Hands-on experience with laboratory equipment (vacuum systems, furnaces, and temperature control).
- Proficiency in CAD software (e.g., SolidWorks, AutoCAD) and laboratory software (e.g., LabVIEW, MatLab).
- Excellent communication skills, both oral and written.
- Personal attributes should include critical thinking, good judgment, clear sense of purpose, attention to detail, ability to work effectively in a team, and accountability.
- Ability to lift > 50 lbs. because of the need to move and assemble various experimental components and equipment. Must have good motor skills, as well as ability to maneuver stairs and move equipment as necessary. Must have ability to stand or sit for long hours.

- Must be able to obtain a badge at U.S. Department of Energy and/or Department of Defense National Laboratories to gain access to restricted areas.

Preferred qualifications:

- Degree in Mechanical Engineering.
- Hands-on experience with high vacuum systems; electro-mechanical systems and controls; optical microscopy and metallographic sample preparation; melting and casting of metallic alloys, or mechanical testing and related equipment.
- Knowledge of basic metallurgy and metallic alloys.

Applications:

To apply, please submit applications to [WSU Jobs \(Posting R-9395\)](#). **As part of the application process, please include a cover letter addressing the required and preferred qualifications for this position, a detailed resume, and the names and contact information (phone number and email) for three professional references to the attention of Dr. Atakan Peker.**

To ensure consideration, please specify the position (**Mechanical Engineer**) for which you are applying. We will begin reviewing applications immediately and will continue to do so until **June 15, 2023**. Please contact Ms. Sheila Heyns with inquiries regarding this position (ispjobs@wsu.edu, 509-335-1861). For more information, please visit <https://asl.wsu.edu/>.



Due to the large volume of applications, we will contact only those selected for next steps.



The ASL is a contract research organization that emphasizes multidisciplinary research activities in the physical sciences, engineering, and biomedical applications to undertake a broad range of applied science and technology projects for government agencies and corporations, including technology transfer for commercial applications. The scientific underpinnings to address the multidisciplinary challenges involve physics, mechanics of materials, materials science, chemistry, and computational modeling and simulations.

Additional information about the Institute for Shock Physics and Washington State University follows:

The Institute has ongoing research activities at the following three locations:

- [Institute for Shock Physics](#) - Pullman, WA: Combining research innovations and rigorous education
- [Dynamic Compression Sector](#) - Argonne, IL: Frontier of dynamic compression science (first-of-a-kind worldwide user facility) located at the Advanced Photon Source, Argonne National Laboratory
- [Applied Sciences Laboratory](#) - Spokane, WA: Transforming science into practical solutions

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. Due to its strong emphasis on excellence in research and education, the Carnegie Classification™ has designated WSU as R1: Doctoral University – Highest Research Activity. Current enrollment is approximately 27,500 undergraduate, graduate, and professional students. The University offers more than 200 fields of study, with 95 majors for undergraduates, 79 master's degree programs, 63 doctoral degree programs, and 4 professional degree programs. Academically, the University is organized into 11 colleges (Agriculture, Human, and Natural Resource Sciences; Arts and Sciences; Business; Communication; Education; Engineering and Architecture; Honors; Medicine; Nursing; Pharmacy; and Veterinary Medicine) and a Graduate School. The Colleges of Medicine, Nursing, and Pharmacy are located on the WSU Health Sciences Spokane campus. For more information, please visit www.wsu.edu.



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