The Institute for Shock Physics, a multidisciplinary research organization within the College of Arts and Sciences, invites applications from strongly self-motivated, talented individuals for a Research Operations Engineer position (Administrative/Professional Staff Member) located at WSU's main campus in Pullman, WA. We are looking to hire a recent graduate having a strong experimental aptitude – who will contribute significantly through hands-on experimental work in a fast-paced creative environment – to work as a Research Operations Engineer in the Institute’s Impact Facilities.

The Institute’s overall research theme is “Understanding Materials under Extreme Conditions” and the research activities involve state-of-the-art experiments to understand the response of materials subjected to high dynamic stresses. The individual hired will be responsible for operating and continually improving the experimental facilities required to create the “extreme conditions.”

**NOTICE OF VACANCY**

**Research Operations Engineer Position**

**Impact Laboratory, Institute for Shock Physics, Washington State University**

The overall responsibilities for this position are as follows:

1. Safely operate and maintain all aspects of the ISP Impact Facilities, including the design, fabrication and assembly of experimental components and equipment. The operational responsibilities are strongly hands-on and require an excellent mechanical aptitude in a laboratory setting, including the use of specialized tools to operate and improve the Institute’s experimental capabilities.

2. Contribute effectively to all aspects of the experimental effort, including guidance and assistance to ISP research faculty and graduate students; ordering experimental components, equipment and supplies; and working effectively in a team setting.

3. Participate in the development and implementation of experimental techniques for a broad range of research projects involving high-velocity impacts.

4. Participate in the research experiments as needed; and prepare reports and publications as appropriate.

Because of the diverse nature of the research activities and the facilities in the Institute, the above list should be viewed as a representative, but not a complete, list of responsibilities.
Qualifications

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

- A recent B.S. degree in Physics, Mechanical Engineering, or a related field. For individuals with prior experience in operating impact facilities, any combination of relevant education and experience may be substituted for the educational requirement on a year-for-year basis.
- An excellent mechanical aptitude and demonstrated hands-on experience with fabrication, assembly, and repair of mechanical components.
- Strong experimental background and hands-on experience with laboratory equipment and tools common in the physical sciences and engineering.
- Strong academic background and excellent problem-solving skills.
- Good computer skills, including experience with technical/design programs, such as LabView or SolidWorks, and working knowledge of data analysis software.
- 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.
- Be able to lift at least 50 lbs., because of the need to move and assemble various experimental components and equipment. Must have fine motor skills, be able to climb up and down stairs in the laboratory, and move equipment as necessary.
- Must be able to obtain a badge at U.S. Department of Energy National Laboratories to gain access to restricted areas.

Preferred Qualifications

- Ability / experience in using machine shop equipment (e.g. lathe, milling machine).

Applications

To apply, please submit application materials via the WSU Human Resource Services website: [https://www.wsujobs.com/postings/46946](https://www.wsujobs.com/postings/46946). Applicants should submit a cover letter addressing the required qualifications for this position, detailed resume, and the names and contact information for three professional references.

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 ([shock.wsu.edu](http://shock.wsu.edu))
• *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 ([dcs-aps.wsu.edu](http://dcs-aps.wsu.edu))

• *Applied Sciences Laboratory - Spokane, WA:* Transforming science into practical solutions ([asl.wsu.edu](http://asl.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. Due to its strong emphasis on excellence in research and education, the Carnegie Classification™ has designated WSU as RU/VH: Research Universities (very high research activity).

Current enrollment is approximately 31,500 undergraduate, graduate, and professional students. The University offers more than 200 fields of study, with 96 majors for undergraduates, 80 master’s degree programs, 64 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.
For more information, please visit [www.wsu.edu](http://www.wsu.edu).

*WSU is an EO/AA Educator and Employer.*