The Institute for Shock Physics (ISP) at Washington State University (WSU) is a multidisciplinary research organization with a strong focus on the Dynamic Compression of Materials. WSU (as the lead institution) and three outstanding academic partners – Princeton University, California Institute of Technology, and Stanford University – conduct substantive research leading to advances/innovations in the field of Dynamic Compression Science. Research activities involving students, postdocs, and faculty members from different academic disciplines at the four participating institutions are emphasized to comprehensively address the exciting scientific challenges. In addition, meaningful and mutually beneficial collaborations are undertaken with scientists at the NNSA Laboratories: Los Alamos, Lawrence Livermore, and Sandia.

We have an immediate opening for a postdoctoral research associate (experimentalist) to investigate the properties of dynamically compressed materials using in-situ x-ray probing in single event experiments. The scientific objectives are to provide a multi-lengthscale understanding of the time dependent phenomena that occur in materials undergoing rapid compression. We are looking for a creative, self-motivated individual, who is excited about taking on the challenges of research on materials under extreme conditions.

This position is located on the WSU Campus in Pullman, WA. However, this work will involve travel to conduct experiments at the Dynamic Compression Sector (DCS), located at the Advanced Photon Source, Argonne National Laboratory, Argonne, IL. More details about the DCS may be found at www.dcs-aps.wsu.edu.

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

- A very recent Ph.D. degree in Plasma Physics, Condensed Matter Physics, Optical Physics, Physical Chemistry, or a closely related field
- A strong academic background and knowledge in areas related to condensed matter or materials science
• Experimental research experience using x-rays or optical probing techniques
• Graduate or post-graduate experience at a U.S. Academic Institution or National Laboratory
• Excellent communication skills, both oral and written, demonstrated via scientific publications and technical presentations
• Critical thinking, good judgment, clear sense of purpose, attention to detail, and accountability, as well as good interpersonal skills necessary for functioning positively in a multi-disciplinary team.

Preferred Qualifications:
• Hands on experience with high intensity laser systems.
• Experience with single event pump probe experiments.
• Experience using x-ray diffraction or phase contrast imaging.

Prior experience in shock wave research is desirable, but not required. However, strong experimental skills and temperament to perform single event experiments are essential.

The salary structure is both attractive and nationally competitive. Other benefits include health/dental insurance, vacation/sick leave, and retirement plans.

APPLICATIONS
Applicants should submit the following information to the attention of Dr. James Hawreliak via email at ispjobs@wsu.edu:

• Cover letter explicitly addressing the qualifications for this position and date of availability
• Detailed curriculum vitae
• Contact information for three professional references

To ensure consideration, please specify the position (Postdoc: X-Ray Studies) for which you are applying. We will begin reviewing submissions immediately and will continue to do so until the position is filled. Please contact Sheila Heyns, Senior Manager of Administration and Operations with questions (ispjobs@wsu.edu, 509-335-5345).

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

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

The Institute for Shock Physics Overview
The Institute for Shock Physics (ISP) is a multi-disciplinary research organization that emphasizes scientific creativity and diversity in the physical sciences and engineering. The Institute is comprised of three locations with complimentary research missions:

• Institute for Shock Physics - Pullman, WA: Combining research innovations and rigorous education (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)
• Applied Sciences Laboratory - Spokane, WA: Transforming science into practical solutions (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 R1: Doctoral University – Highest Research Activity. Current enrollment is approximately 31,478 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.

WSU is an EO/AA Educator and Employer.