

NOTICE OF VACANCY
Professor/Associate Professor (Tenure Track)
and Associate Director
Experimentalist



Institute for
Shock Physics
WASHINGTON STATE UNIVERSITY

Description

The Institute for Shock Physics (ISP) is a multidisciplinary research organization, within the College of Arts and Sciences (CAS) at Washington State University (WSU), with an emphasis on understanding condensed matter response at extreme conditions. The WSU shock physics effort, widely recognized as the academic leader in the field, has a long and distinguished history of research innovations and excellence, and rigorous hands-on training in studying material response under extreme dynamic compression. Spanning nearly six decades, many pioneering developments in shock wave experiments and theory have been carried out at WSU. One of WSU's most notable achievements in this field has been the outstanding group of scientists who have been educated and trained as graduate students and postdoctoral research associates. These individuals have gone on to become leaders in this field.¹

WSU is making investments to enhance and broaden the Institute's unique and eminent national role well into the future and has established a new tenure-track faculty position in the Institute for Shock Physics (ISP). **We are seeking to hire an outstanding experimentalist in the area of Dynamic Compression Science (Associate Professor or Full Professor Rank) who will also serve as an Associate Director for the ISP.** Candidates from a broad range of scientific areas (Condensed Matter Physics, High Energy Density Physics, Materials Science, and Planetary Science) will be considered, provided they have a demonstrated record of scientific excellence and achievements in dynamic compression research. The individual hired will be expected to provide scientific and administrative leadership, to develop a strong externally-funded research program in dynamic compression science, to guide graduate students and postdocs, and to teach undergraduate and graduate courses in physics or a relevant academic discipline. This is a full-time, academic year, tenure-track (or tenured) position in the Institute for Shock Physics, located on the WSU Pullman campus, with the possibility of a joint appointment or affiliation with a relevant academic department at WSU. Additionally, there exist excellent opportunities for collaborations with scientists at the DOE/NNSA and DoD Laboratories.

We are seeking an outstanding experimentalist and proven leader with a strong record of program development and research accomplishments who can provide scientific leadership in dynamic compression science, the ability to define and lead new research thrusts, the ability to lead multidisciplinary research projects and guide others, a strong interest in teaching, and having the requisite scientific stature for this position.

Responsibilities include, but are not limited to:

- Provide scientific and administrative leadership for the Institute for Shock Physics.
- Develop an externally-supported, innovative and forward looking research program.
- Train and mentor graduate students and post-doctoral research associates.

¹ Seven out of fifteen awards of the American Physical Society's George E. Duvall Shock Compression Science Award to date have gone to WSU graduates and/or faculty members.
(aps.org/programs/honors/awards/shock.cfm)

- Publish in peer-reviewed journals, including high-impact journals.
- Teach undergraduate and graduate courses in Physics or a relevant academic department related to the faculty member's discipline.
- Disseminate results and findings at national and international venues (conferences/meetings/colloquia) – invited and contributed presentations.
- Engage in activities, both internal and external to WSU, to enhance the scientific impact and stature of the ISP, specifically by conducting state-of-the-art research and by fostering research collaborations within and outside WSU.

Required Qualifications

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

- PhD in Physics or a relevant academic discipline and 6-8 years of post-PhD research experience by the appointment start-date for the Associate Professor rank or 10-12 years of post-PhD research experience by the appointment start-date for the Professor rank.
- Strong research credentials in dynamic compression science as demonstrated by significant peer reviewed publications.
- Demonstrated leadership qualities, with a strong record of program development and research accomplishments.
- Hands-on expertise in dynamic compression experiments.
- A strong record of research and scholarship in dynamic compression science; the ability to define and lead new research thrusts; the ability to lead multidisciplinary research projects, as appropriate; a strong interest in teaching, and the requisite scientific stature for the position.
- The ability and expertise to guide and supervise successfully the research activities of graduate students and postdoctoral research associates.
- Personal attributes should include strong leadership abilities, excellent communication skills and critical thinking, sound judgment, high levels of creativity and energy, and the ability to inspire others.

Application Process

To apply, submit a cover letter addressing the required qualifications; detailed curriculum vitae; a description of research accomplishments and research plans; and contact information for five professional references.

The application process consists of two parts:

1. Please send applications via email directly to the attention of Ms. Sheila Heyns at ispjobs@wsu.edu.
2. Please upload your materials online at the WSU recruitment website: <https://www.wsujobs.com/postings/25991>

Applications will be considered until the position is filled. Please contact Ms. Sheila Heyns with inquiries regarding this position (ispjobs@wsu.edu, 509-335-1861).

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

THE INSTITUTE FOR SHOCK PHYSICS

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)
- *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)



The Institute for Shock Physics

Washington State University



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 28,686 undergraduate, graduate, and professional students. The University offers more than 200 fields of study, with 95 majors for undergraduates, 76 master's degree programs, 66 doctoral degree programs, and 3 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; Medical Sciences, Nursing; Pharmacy; Veterinary Medicine) and a Graduate School. WSU is establishing a medical school with preliminary accreditation anticipated by the summer of 2016. For more information, please visit www.wsu.edu.

WSU is an EO/AA Educator and Employer.