

**Postdoctoral Research Position – High Pressure Science**  
**Notice of Vacancy**  
**Institute for Shock Physics**  
**Washington State University**

The Static High Pressure Research Group within the Institute for Shock Physics at Washington State University has an immediate opening for a postdoctoral position for an outstanding experimental scientist in high-pressure and materials research activities, utilizing state-of-the-art laser spectroscopy, x-ray diffraction and spectroscopy, and static and dynamic high-pressure technologies available at the Institute, as well as at the national synchrotron and other user facilities. We are looking for a creative, self-motivated individual, who has the ability and interest to pursue challenging, interdisciplinary problems in a fast paced research environment.

**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 Physical Chemistry, Condensed Matter Physics or a closely related field
- A strong academic background and knowledge in areas related to structural high-pressure science, crystallography, thermodynamics, transport properties, and optical spectroscopy.
- Hands-on experience in using high-pressure and high-temperature technologies such as diamond-anvil cells (DAC), large-volume press, laser- and ohmic-heating, and electric conductivity measurements
- Experience in using laser-spectroscopic techniques including conventional micro-Raman, FTIR, reflectivity measurements, as well as in performing research at national user facilities such as third generation synchrotron x-ray and neutron sources.
- Research experiences in solid state chemistry, energetic materials and energetic chemical processes, and/or novel materials synthesis at extreme environments
- These positions require good communication skills *via* scientific publications and technical presentations as well as good interpersonal skills necessary for a multi-disciplinary team research environment.

The successful candidate is expected to work on a collaborative project with Los Alamos National Laboratory (LANL), utilizing the experimental capabilities at both WSU and LANL. A candidate with a US citizenship is not required but preferred for this position. Some travel between the Laboratories and the National Synchrotron Facilities is expected.

For more information about the High Pressure research activities and capabilities at the Institute, please visit: <http://yoo.chem.wsu.edu/home>. For motivated researchers, there will be ample opportunities to develop collaborative efforts utilizing a wide range of shock wave technologies. Further details pertinent to shock wave research may be found at [www.shock.wsu.edu](http://www.shock.wsu.edu).

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

## APPLICATIONS

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

Professor C.S. Yoo  
Department of Chemistry / Institute for Shock Physics  
Washington State University  
PO Box 642816  
Pullman, WA 99164-2816

or via email at [ispjobs@wsu.edu](mailto:ispjobs@wsu.edu).

Please be sure to specify the position (Postdoc - High Pressure Science) 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).*