The Spokane-based Applied Sciences Laboratory (ASL) of the Institute for Shock Physics (ISP) at Washington State University has an immediate opening for an Optical Scientist (non-tenure track position) to establish and lead (as a Principal Investigator) an applied research program that links ASL's optical sciences expertise to biomedical applications. We are looking for a creative, entrepreneurial scientist with excellent research credentials, and the ability and strong drive to address challenging, multidisciplinary problems in a fast-paced applied research environment.

The ASL is a contract research organization with an emphasis, to date, on multidisciplinary research activities in the physical sciences and engineering to undertake a broad range of applied S&T projects for government agencies and corporations, including technology transfer for commercial applications. The scientific underpinnings to address the multidisciplinary challenges involve physics, chemistry, materials science, and computational modeling and simulations. There is a strong interest in expanding the scope of the ASL research activities to include biomedical applications, as noted below.

The WSU Health Sciences Spokane campus is at the center of a vibrant and nationally competitive health care cluster in Spokane that seeks to catalyze strong partnerships between University-based research and innovations in health care, including technology development and commercialization. Now is the ideal time to build partnerships between the ASL, with expertise in Optical Science and Technology, and WSU Health Sciences Spokane, with graduate and professional programs in Medicine, Nursing, and Pharmacy. Leveraging the combined strengths of each organization will advance the establishment of an applied research program with a focus on the use of optical sciences and technologies for biomedical applications.

The ASL is ideally suited to combine the creativity of academic research with the agility and customer focus of private industry. As such, it is well suited for creative and entrepreneurial individuals who enjoy solving multidisciplinary problems that can have a broad impact and have an interest in technology transfer and/or starting new ventures.

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

- A Ph.D. degree in the Physical or Life Sciences, and a minimum of 3 years postdoctoral research experience at a U.S. Academic Institution, National Laboratory, or industry. In exceptional cases, an equivalent combination of education and experience may be considered.
- Strong academic and research background relevant to this position, including excellent problem-solving skills.
• Demonstrated ability and drive to develop, lead, and sustain an externally funded research program that links optical sciences with biomedical applications.
• Strong interest in identifying and solving applied research problems in biomedical sciences.
• Commitment to innovation and entrepreneurship at the academic-industry interface
• A strong record of research accomplishments.
• Ability to work independently and in a team environment, as needed.
• Personal attributes should include critical thinking; excellent communication skills, both oral and written; sound judgment; clear sense of purpose; attention to detail; and accountability.

This position is not a typical academic faculty position. ASL is a University-based, self-sustaining, contract research organization. As described above, ASL Principal Investigators are expected to establish and lead significant, externally funded research programs with a focus on problem solving and applications. As such, the ability and the commitment to obtain external support for the research work will be a strong consideration in the application review and evaluation process. The successful candidate will be expected to:

• Establish and lead a vigorous and significant externally funded research program.
• Demonstrate proficient skills to understand client/sponsor goals and technical needs to develop new research programs, and deliver timely solutions.
• Recruit, support, and guide the work of multidisciplinary scientific/technical staff members, as needed, to ensure high quality research activities.
• Identify and pursue applied problems and market opportunities that are addressed effectively through ASL capabilities and emerging technologies.
• Interact with research sponsors, including responsibility for presentations and reports.
• Develop mutually beneficial partnerships with companies, nationally and regionally.
• Develop, when appropriate, problem-driven research partnerships with regional physicians and physician-scientists.
• Work effectively with other ASL and WSU scientists.

This Optical Scientist position (non-tenure track) has no teaching responsibilities. A competitive salary, commensurate with the achievement and experience of the applicant, will be offered. The person hired in this position will have significant opportunity and support to build a strong and vibrant research program with a focus on problem solving and applications. Start-up funds to purchase laboratory equipment and to establish research capabilities will be provided. This is an excellent opportunity for a self-motivated and entrepreneurial individual with the ability and the drive to establish and sustain a strong applied research program and start new ventures.

Applications
Interested individuals should submit the following application materials:

• Cover letter addressing the required qualifications.
• Detailed curriculum vitae, including publications and grant funding history.
• Description of previous research accomplishments.
• Research plan, including details of proposed activities and the funding agencies that are expected to support the proposed activities.

• Contact information for three professional references.

Please send applications via email directly to the attention of Ms. Sheila Heyns at ispjobs@wsu.edu.

To ensure consideration, please specify the position (ASL Optical Scientist) for which you are applying. 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).

**The Institute for Shock Physics Overview**

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

• **Applied Sciences Laboratory - Spokane, WA:** Transforming science into practical solutions ([asl.wsu.edu](http://asl.wsu.edu))

• **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))

**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 29,686 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. As noted earlier, the Colleges of Medicine, Nursing, and Pharmacy are located on the WSU Health Sciences Spokane campus. For more information, please visit [www.wsu.edu](http://www.wsu.edu).

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