Do you have a Ph.D. in Physics, Materials Sciences, Chemistry or related field? Do you have 3 or more years of expertise in aberration-corrected electron microscopy with specialty in STEM imaging and spectroscopy (EDS and EELS)? Do you thrive when working with a team of technical staff scientists? If you say yes to all of these, then you may be just who we are looking for!

Arizona State University’s Knowledge Enterprise is seeking an experienced and talented Research Scientist (all ranks) to join their Southwest Center for Aberration Corrected Electron Microscopy Lab within the Eyring Materials Center (EMC) Core Facility. Arizona State University has a long history as an international leader in the field of atomic-resolution transmission electron microscopy-based research. Eyring Materials Center (formally known as LeRoy Eyring Center for Solid State Science) was established in 1974 to provide researchers with open access to sophisticated techniques for materials characterization and high-resolution electron microscopy. The Center supports materials analysis across a broad range of scientific disciplines, including physics, chemistry, biological sciences, earth and space sciences, and engineering.

We have a four-decade legacy of training researchers on our electron microscopes and other analytical tools. Material scientists who trained at ASU are now running analytical, characterization and imaging laboratories in academia, government and industry around the world. The Southwest Center for Aberration Corrected Electron Microscopy is a purpose-built laboratory that houses three aberration-corrected microscopes used for materials science research.

As a Research Scientist (all ranks) in the EMC SW Center for Aberration Corrected Electron Microscopy you will be responsible for operating TEM and STEM instruments, including aberration-corrected microscopes. In addition, you will provide training and assistance for ASU and external users and participate in electron-microscopy based research, including technique development. It is critical that you can work effectively as part of a team of technical staff scientists.

**Essential Duties:**

About you and your job responsibilities

- You will be the leading expert in aberration-corrected electron microscopy with specialty in STEM imaging and spectroscopy (EDS and EELS) managing our NION UltraSTEM 100 microscope.
- You will be using the aberration corrected STEM techniques for materials research as well as continuing learning and staying apprised of technologies to maintain a good understanding of practical electron optics and vacuum systems.
- You will train and mentor students, staff, faculty and external users on electron-microscopy based research, including technique development.
Minimum Qualifications:

- Applicants must have a Ph.D. in Physics, Materials Science, Chemistry, or related field AND 3 or more years of expertise in aberration-corrected electron microscopy with specialty in STEM imaging and spectroscopy (EDS and EELS).

Desired Qualifications:

As the ideal candidate you have:

- Demonstrated expertise in solving materials-science problems with TEM/STEM techniques.
- Demonstrated expertise in processing and analysis of TEM/STEM data.
- Demonstrated experience with monochromators.
- Demonstrated interest in pursuing independent research.
- Experience with NION STEM instrumentation.

To Apply

Please submit to OKEDHiring@asu.edu as a single pdf document the following materials:

1. Cover letter specifying relevant qualifications and training
2. Curriculum vitae
3. Statement of current research interests and expertise (2-page maximum),
4. Three professional references with contact information
5. One peer-reviewed publication.

Please include the subject line, "TEM/STEM Research Scientist" in the email. Initial review of applications will begin on June 30, 2019; As long as the position is not filled, a review will continue every 2 weeks thereafter until the search is closed. A background check is required for employment. The salary range is depending on experience.

Arizona State University is a new model for American higher education, an unprecedented combination of academic excellence, entrepreneurial energy, and broad access. This New American University is a single, unified institution comprising four differentiated campuses positively impacting the economic, social, cultural and environmental health of the
communities it serves. Its research is inspired by real world application blurring the boundaries that traditionally separate academic disciplines. ASU serves more than 80,000 students in metropolitan Phoenix, Arizona, the nation's fifth largest city. ASU champions intellectual and cultural diversity, and it welcomes students from all fifty states and more than one hundred nations across the globe. ASU is in the Phoenix metropolitan area in Tempe, Arizona and is one of the largest universities in the U.S. The Academic Rankings of World Universities has included ASU in the top-100 list of research universities. For the fourth year in a row U.S. News and World Report have named ASU the most innovative school in the nation, recognizing the university's culture of groundbreaking research and partnerships, as well as its commitment to helping students thrive in college and beyond.

The ASU Knowledge Enterprise advances research, innovation, strategic partnerships, entrepreneurship, economic development and international development. Creating new knowledge through research is just the beginning. We are successfully bringing our ideas and inventions into the marketplace and using them for the benefit of society. We offer services and support to faculty throughout the entire research life-cycle—from locating funding opportunities to commercializing new technologies.

In addition to advancing research, the Knowledge Enterprise trains and supports entrepreneurs, leads the university's economic development activities, engages with corporate partners and international development agencies, and facilitates technology transfer. Learn more about ASU Knowledge Enterprise at https://research.asu.edu/.

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Arizona State University is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will be considered without regard to race, color, sex, religion, national origin, disability, protected veteran status, or any other basis protected by law.