

I. Open rank faculty position in Cryo-EM**II. NOTE: Add format component requirements from the ASU “Faculty and Academic Professional Search Handbook, Revision Date 9/15/14.”****A. LONG AD**

Long Ad – includes the complete job announcement: duties, required/desired qualifications, application deadline, application material, EO/AA statement, and criminal background check statement. Long ads also usually include general information about the department and/or university.

Assistant/Associate/Full Professor**Faculty Position in the School of Molecular Sciences****Joint Appointment: School of Molecular Sciences & the Biodesign Institute, Center for Applied Structural Discovery
Arizona State University**

The School of Molecular Sciences and the Biodesign Institute, Center for Applied Structural Discovery (CASD,) at Arizona State University (ASU) seeks applicants at the assistant, associate, or full professor level with demonstrated applied and theoretical expertise, and international standing in the field of cryo electron microscopy (cryo-EM). ASU has a long history as an international leader in the development of electron microscopy instrumentation and methods. In recent years, ASU has developed competitive programs in the determination of the structure and dynamics of proteins using NMR and standard X-ray crystallography. We are leaders in the development of serial femtosecond crystallography with X-ray free electron lasers. Addition of cryo-EM to existing capabilities and other new initiatives (cutting-edge compact X-ray light sources) makes CASD in the Biodesign Institute at ASU (<https://biodesign.asu.edu/applied-structural-discovery>) an exciting, cutting-edge research environment for applied structural biology. Building on our existing capabilities, CASD is the recipient of an NSF MRI grant for a state-of-the-art cryo-EM equipped with advanced detectors, enabling ASU to engage in structural discovery at the forefront of what is possible using high resolution cryo-EM.

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. ASU tops the 2015 U.S. News & World Report list of the most innovative schools in the US. Thomson Reuters Science Watch ranked ASU’s Department of Chemistry and Biochemistry (since 2015: School of Molecular Sciences) 6th in impact worldwide, based on citation impact.

The successful candidate is expected to: assume directorship of our new NSF funded CASD Southwest Center for cryo-EM, develop a vigorous externally-funded research program at ASU with significant national and international recognition and drives further technology developments and cutting edge science in the field of cryo-EM; teach effectively at the undergraduate and graduate levels; participate in professional and university service; collaborate with colleagues within the Center for Applied Structural Discovery, with other Centers in the Biodesign Institute (<https://biodesign.asu.edu/>) and ASU at large; and to develop a dynamic and productive network of regional, national, and international collaborations.

Essential Functions (commensurate with rank and years of experience):

- Provide intellectual leadership in the field of cryo-EM at ASU
- Lead ASU, Biodesign CASD, and the School of Molecular Sciences to international prominence in cryo-EM
- Conduct cutting-edge research that is published in premier academic journals
- Lead collaborative interdisciplinary research and support collaborative grant proposals within CASD, ASU, and regional, national, and international collaborators
- Participate in internal and external committees and associations
- Facilitate cross-disciplinary, and interdisciplinary interactions
- Deliver excellent in-class instruction at the graduate and undergraduate level

Minimum Qualifications:

- Demonstrated expertise in cryo-EM
 - Doctorate in Chemistry, Biology, Physics, or a related field
 - Potential / Ability to establish a vigorous, externally-funded research program, with national and international impact
 - An outstanding record of research accomplishments
 - A strong commitment to excellence in teaching

Desired Qualifications (commensurate with rank and years of experience):

- Applied practical expertise in single-particle and/or tomographic imaging
- Interest in theoretical methods and algorithms development in cryo-EM
- Experience working in a cross-disciplinary/interdisciplinary environment

To apply, please submit all documents outlined below **in one PDF** document to the School of Molecular Sciences website at <https://chemistry.asu.edu/news/EmployOpp.asp>

1. Cover letter

2. Full CV
 - a. Include a list all publications (with titles) and highlight the 5 most important publications
 - b. Include a list presentations at conferences
 - c. Include a list current funding if applicable
3. A succinct Outline of future Research Plans
4. A statement of Teaching Philosophy and Interests

Applications will be reviewed beginning (depends on approval date, 45 days from posting date) with review of applications continuing weekly until the search is closed.

Arizona State University is a VEVRAA Federal Contractor and 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. Diversity is a key component of excellence at ASU, and the Center for Applied Structural Discovery, a Center within the Biodesign Institute, and the School of Molecular Sciences supports the value of diversity among faculty, staff, and students.

ASU's full non-discrimination statement (ACD 401) is located on the ASU website at: <https://www.asu.edu/aad/manuals/acd/acd401.html> and the Title IX statement is found at <https://www.asu.edu/titleIX/>.

ASU conducts pre-employment screening for all positions which includes a criminal background check, verification of work history, academic credentials, licenses, and certifications. Employment is contingent upon successful passing of the background check.

B. SHORT AD

Short ad is not applicable. The long ad will be posted in full text on two international websites per the requirements of the Office of Equity and Inclusion. All other ads will direct candidates to the website to apply where the full ad text will be available for all candidates to read.