



The University of Michigan announces the recruitment of faculty who apply cutting-edge methods of cryo-electron microscopy to important biological problems. This recruitment is part of funding awarded through the University of Michigan Biosciences Initiative to enhance the university's strengths in biological and biomedical research.

The University of Michigan Biosciences Initiative award will expand cryo-EM research through the hiring of new faculty in addition to enhancing campus resources which are currently located in the Life Sciences Institute (LSI) and expanding to the Biological Sciences Building (BSB). The two facilities include two Titan Krios microscopes each equipped with a Volta phase plate, energy filter, and K3 direct electron detector; Aquilos FIB-SEM; Leica EM Cryo CLEM light microscope; Talos Arctica with K2 direct electron detector; Glacios with Falcon 3EC direct electron detector and CetaD detector for microED; Tecnai T12 with US4000 CCD detector; and Morgagni for negative stain screening. In addition, the facilities will house sample preparation equipment that includes the picoliter-dispensing Chameleon sample preparation robot from TTP Labtech in addition to two Vitrobot plunge-freezing devices. The cryo-EM facilities are led by a resource director and three staff.

The Life Sciences Institute (LSI) is a scientific enterprise at the University of Michigan dedicated to fundamental discovery in the biological sciences in a state-of-the-art collaborative physical space (www.lsi.umich.edu). Through basic discovery, the institute seeks to advance knowledge in critical areas of biology with an ultimate goal of contributing to human health with research in areas including cancer, metabolic disorders, brain disorders, and infectious disease. The LSI is currently home to 22 faculty members in the disciplines of chemistry, cell biology, physiology, genetics, chemical biology, biophysics, structural biology, and stem cell biology, including three Howard Hughes Medical Institute investigators, three members of the National Academy of Sciences, and five members of the National Academy of Medicine. Our culture centers on upholding scientific excellence, embracing risk, and collaborating across disciplines to achieve an impact greater than the sum of our individual parts.

The LSI and the Biosciences Initiative invite applications for an open rank faculty position in **cryo-electron tomography (cryo-ET)**. The successful candidate will have experience in bringing the resolutions of single-particle cryo-EM to cellular studies so that molecular machines can be visualized in their native cellular environments through advanced image analysis and sub-tomogram averaging. They will have a PhD, MD or other terminal degree, substantial postdoctoral research experience, and a significant publication record. Candidates will be evaluated on the basis of their superlative scientific accomplishment and scholarly promise. The successful candidate will be expected to develop an internationally recognized program of scholarly research, to establish a vigorous, externally funded research program, to become a scientific leader in their respective field, to excel in mentoring at the graduate level, and to participate in departmental and program activities including teaching at the graduate, medical, and/or undergraduate levels.

Faculty will hold both a research professor track appointment in the LSI as well as an Assistant, Associate or Full Professor appointment in departments of the Medical School; the College of Literature, Science and the Arts; or the College of Engineering. All faculty are expected to participate in the University of Michigan's teaching mission and to demonstrate commitment to diversity, equity and inclusion goals and service in the larger community.

For more information relating to cryo-EM at the University of Michigan: lsi.umich.edu/cryo-EM

APPLICATION INSTRUCTIONS: Application materials are due by **Sunday September 15, 2019**. Interested applicants will submit a cover letter, curriculum vitae, a summary of future research plans (up to 3 pages), and contact information for three faculty who will write a letter of recommendation on our online application site <http://apply.interfolio.com/64772>. Individuals from groups historically under-represented in the sciences are strongly encouraged to apply. For technical support for using Interfolio, please see the [Job Applicant's Guide to Interfolio Faculty Search](#). For questions about the application process, please contact CryoEM-BSI@umich.edu.

The University of Michigan is an Affirmative Action/Equal Opportunity Employer.