



OPTICAL MICROSCOPY / FIB-SEM Specialist
Harvard Medical School
Boston Children's Hospital

July 28, 2021

Are you looking for a leading academic research lab with unique experimental instrumentation contributing to breakthrough discoveries in cell biology? Would working in an environment with a diverse group of people where you can participate in researching new concepts and providing application support excite you?

Dr. Kirchhausen's laboratory is located at Boston Children's Hospital and Harvard Medical School. We use frontier optical- and electron microscopy imaging modalities for high-resolution structural visualization and live-cell imaging to relate molecular events with functional properties governing membrane-remodeling processes exemplified by intracellular vesicular traffic and delivery of biologicals, biogenesis of organelles, and host-virus interactions.

We are seeking a highly motivated individual with specific expertise in optics and fluorescence imaging, and electron microscopy (useful but not required). This position is available immediately. This individual will support our lab state-of-the art computer-assisted optical microscopes (three spinning disc confocal microscopes and three TIRF microscopes with single molecule sensitivity) and one high-resolution FIB-SEM (focused ion beam – scanning electron microscope).

Under the direction of the Principal Investigator, the incumbent of this position will independently oversee the day-to-day operations, maintenance, and operations of the optical microscopes (used for quantitative live-cell and expansion imaging, single-molecule imaging, super resolution, photoactivation, and FRAP), will train users and provide hands-on assistance. We will provide training to the incumbent for the maintenance and operation of the Zeiss Crossbeam 540 FIB-SEM (used for deep learning automated 3D image recognition).

Essential for this position is the ability to communicate effectively with researchers with various knowledge levels in imaging technology. Also key for the incumbent is to have a proven ability to maintain instrumentation and to communicate effectively with suppliers

to report problems, repair, or replace faulty equipment for the fluorescence microscopes, the FIB-SEM, and associated equipment.

The opening is for candidates with a Ph.D., M.S., or B.S. in a science or engineering field, including Biophysics, Chemistry, Molecular Biology, Physics, Applied Physics, Chemical Engineering, Materials Science, or a related field with at least 5 years of experience in visualization modalities such as wide field, TIRF, and/or confocal microscopy. Familiarity with scanning or FIB-SEM electron microscopy and LINUX operating systems will be useful but not required.

Proper data recording and bookkeeping are essential. Oral and written presentation of activities performed in the laboratory is expected for internal reports. This job does not require duties that involve potential for exposure to blood, body fluids, or tissues. Tasks that do involve exposure are not an expectation of employment.

Contact information:

Please send a cover letter indicating your background, a resume and names of three references to:

Tom Kirchhausen

Springer Family Chair

Professor of Cell Biology and Professor of Pediatrics

Harvard Medical School

Senior Investigator, Program in Cellular and Molecular Medicine

e-mail: research@tklab.hms.harvard.edu

Boston Children's Hospital offers competitive compensation and unmatched benefits, affordable health, vision and dental insurance, generous levels of time off, 403(b) Retirement Savings plan, Pension, Tuition Reimbursement, cell phone plan discounts and discounted rates on T-passes (50% off). Discover your best.

Boston Children's Hospital is an Equal Opportunity / Affirmative Action Employer. Qualified applicants will receive consideration for employment without regard to their race, color, religion, national origin, sex, sexual orientation, gender identity, protected veteran status or disability.