



Mass General Brigham
Massachusetts Institute of Technology
Harvard University

JOB DESCRIPTION

Job Title: Post-Doctoral Research Fellow

Group/Lab: Barczak Lab

Direct Supervisor: Amy Barczak

Employing Hospital and Department: MGH Ragon Institute of Mass General Brigham, MIT, and Harvard

Last Update: 3/23/2026

Minimum degree and field of knowledge: PhD and/or MD with experience with animal models of infection and/or tissue microscopy/analysis

Years' experience required: 0-3 years of post-doctoral experience

Summary:

The Barczak lab at the Ragon Institute of MGH, MIT and Harvard at the Massachusetts General Hospital in Boston has an opening for a highly motivated postdoctoral fellow to study the mechanisms through which tuberculosis (TB) infection drives tissue damage, pathologic remodeling, and lung scarring that underlies post-TB lung disease. The individual hired will work collaboratively with other lab members to carry out experiments using a variety of techniques including cellular and animal models of TB infection, immunofluorescence microscopy, flow cytometry, spatial transcriptomics, and single-cell RNAseq. State-of-the-art facilities are available within an exceptionally energetic research setting.

Job Duties:

Under the direction of the principal investigator, the applicant will independently carry out activities performing laboratory research. Duties include:

- Guide research projects through experimental design, conduct of experiments, and analysis of data
- Maintain detailed documentation of the experimental work
- Present data within and outside of the laboratory group at meetings and symposia
- Work closely within the group and with outside collaborators
- Mentor students and technicians
- Maintain close communications with the PI regarding progress
- Write, edit, and submit manuscripts/abstracts detailing the results of the project
- Demonstrate integrity, excellence, accountability and teamwork in all interactions

Qualifications:

- A Ph.D. and/or M.D. with research experience in animal models of infection and/or tissue-based immunofluorescence microscopy and analysis

- Highly motivated and independent, with the ability to work in a dynamic team environment
- Exceptional organizational skills and excellent attention to detail
- Strong oral and written communications skills
- Must have good interpersonal skills
- Occasional weekend or evening flexibility

Interested candidates please send your cover letter, CV, and names of three references to Dr. Amy Barczak: abarczak@mgh.harvard.edu.