

## Job Description

The [Hansen lab](#) at MIT's Department of Biological Engineering is looking to hire a Technical Associate I to start during the Summer of 2021. The role will be ~75% research and ~25% lab general lab organizational duties. The focus will be on helping to develop new genome-editing methods to facilitate fluorescence imaging in mammalian cells. This is part of a new collaborative initiative with the [Broad Institute](#) Gene Regulation Observatory and will involve close collaboration with Dr. [Fei Chen](#). This position will be ideal for a recent/soon-to-be graduate who is looking for additional training before entering graduate/medical school and/or someone with prior experience as a Technical Associate or similar.

## Research

We are interested in understanding the interplay between genome organization and regulation of gene expression in mammals. We use a combination of mammalian tissue culture, live-cell super-resolution fluorescence microscopy, molecular biology, biochemistry, genomics and computational approaches towards this goal. Please see our website for a full research description: <https://www.ashansenlab.com/research.html>

## Primary duties and responsibilities

- Research: Work on a collaborative project to develop new endogenous genome-editing methods for fluorescence imaging in mammalian cells, including:
  - Perform cloning of DNA constructs for genome-editing.
  - Perform genome-editing of human cells and tissue culture of human cells.
  - Conduct biochemical experiments such as Western Blotting, qPCR and similar assays.
  - Conduct and optimize high-resolution live-cell fluorescence microscopy experiments.
  - Conduct computational data analysis.
- Assisting with general lab maintenance
  - Order lab supplies and keep track of supplies.
  - Maintain lab inventory and fulfill external reagent requests.
  - Ensure regulatory and safety compliance of lab and lab members.
  - Facilitate collaborative work between Hansen and Chen labs.
  - Various ad-hoc lab and administrative tasks.

## Required Qualifications

- BA/BS degree in Molecular or Cell Biology, Biochemistry, Bioengineering, or related.
- Willing to start during the summer of 2021, ideally June 1<sup>st</sup>, 2021.
- Minimally 2 years of wet lab experience including molecular biology (e.g. undergraduate research experience).
- An understanding of modern molecular and cell biology.
- Excellent organization skills and attention to detail.
- Ability to juggle between multiple roles.
- Strong initiative and self-motivation (will fulfill tasks without reminding).
- Ability to work both independently and in collaboration with lab members.
- Good written and oral communication skills; willingness to train and on-board new lab members.
- Willingness to learn and acquire new experimental and computational skills as necessary.
- Integrity, ability to clearly document work and maintain an accurate lab notebook.
- The position may require the ability to work nights and weekends as required by experiments.

## How to apply

We offer a dynamic, fast-paced and interdisciplinary environment and the lab is based in newly-renovated space in building 56 on MIT's main campus in Cambridge, MA. Right next to the Kendall Square 'T' stop.

To apply, please submit your application and include (1) a cover letter explaining your interest in this position, (2) your CV and (3) contact information for at least two references via the MIT Jobs Portal:

[https://careers.peopleclick.com/careerscp/client\\_mit/external/jobDetails/jobDetail.html?jobPostId=19908&localeCode=en-us](https://careers.peopleclick.com/careerscp/client_mit/external/jobDetails/jobDetail.html?jobPostId=19908&localeCode=en-us) or go to [https://careers.peopleclick.com/careerscp/client\\_mit/external/search/search.html](https://careers.peopleclick.com/careerscp/client_mit/external/search/search.html) and search for Job ID # 19350.

## About MIT

Founded in 1861, MIT is private research university located in Cambridge, MA. MIT is an equal employment opportunity employer. All qualified applicants will receive consideration for employment and will not be discriminated against on the basis of race, color, sex, sexual orientation, gender identity, religion, disability, age, genetic information, veteran status, ancestry, or national or ethnic origin.