

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 1st, 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 or go to https://careers.peopleclick.com/careerscp/client_mit/external/search/search.html and search for Job ID # 19350.

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