Hansen Lab – Technical Associate I

https://www.ashansenlab.com/

Job Description

The Hansen lab at MIT's Department of Biological Engineering is looking to hire a Technical Associate I. The role will be ~60% research and ~40% lab general lab management duties. The lab is opening its doors on February 1st, 2020 and we are looking for a Technical Associate to join at this time and help start the lab and spearhead the first research projects either independently or in collaboration with post-docs and graduate students in the lab. 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. Our goal is to understand how genome organization and gene expression is regulated during development and differentiation, and how dysregulation of these processes causes disease. Ultimately, this may allow us to correct genome misfolding in disease. Please see our website for a full research description: https://www.ashansenlab.com/research.html

Primary duties and responsibilities

- 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
  - Assist with on-boarding of new lab members
  - Various ad-hoc lab and administrative tasks
- Research: independent research and/or support ongoing research projects. Some prior experience in Molecular Biology is desired, but we will provide training in other techniques as necessary, including:
  - Perform cloning of DNA constructs for genome-editing and assist with CRISPR/Cas9-mediated genome-editing of mouse and human cells, including tissue culture of these cell lines
  - Conduct biochemical and genomic experiments such as Western Blotting and ChIP-Seq
  - Learn how to and then conduct high-resolution live-cell fluorescence microscopy experiments
  - Learn how to analyze genomic and imaging data computationally

Required Qualifications

- BA/BS degree in Molecular or Cell Biology, Biochemistry, Bioengineering, or related.
- Willing to start Feb 1st, 2020 or close to this date.
- Previous wet lab experience including molecular biology
- 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
- Willingness to occasionally work odd-hours as required by experiments

Preferred Qualifications

- Prior experience with Tissue Culture (stem cells and/or human cancer cells).

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=16532&localeCode=en-us or go to https://careers.peopleclick.com/careerscp/client_mit/external/search/search.html and search for Job ID 17837.

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