Internship / Master’s thesis project

We have a position available for a Master’s thesis research project in Fei Chen’s lab at Harvard and the Broad Institute in Cambridge MA, and are looking for an ambitious student interested in synthetic biology and biological method development to start early next year / as soon as possible. For more information about the lab, you can check out https://www.insitubiology.org.

● Who is this position suited for?
Talented Master students ready to start their thesis research. If you finished your bachelor’s degree and want to apply to US graduate school, this might also be a good opportunity for you as we have multiple post-bacs that participate in research before applying to graduate school.

● What is offered?
You will get to work on innovative research projects in a collaborative and dynamic environment. You will collaborate closely with a mentor and use synthetic biology approaches for biological methods development. You are going to share results with the group at lab meetings. You will have the opportunity to co-author scientific publications. A research stipend (30-40k dollars per year) and direct help with the US visa application process will be provided.

● What will you be working on?
Broadly, you are going to use synthetic biology and biochemistry approaches for capturing gene expression dynamics at single cell resolution. Much of the work will apply Base Editors developed in David Liu’s lab to gain insights into cellular dynamics. Common techniques will include cloning of plasmids, enzymatic assays and NGS sequencing analysis (MiSeq/long read sequencing), as well as protein expression & purification and mammalian tissue culture. You will also perform computational analysis of sequencing data and additional computational analyses.

● What is expected?
A high level of self-motivation and drive! Interest in synthetic and cell biology and computational biology. Time commitment of one year is strongly preferred, but if only a shorter period works for you, please specify the duration in your email.

Contact: You can write me, Verena Volf, a current PhD student at Harvard at verenavolf@g.harvard.edu. Please send a CV, a transcript of records and a brief description of your research experience and interests, and anything else you think is relevant for us to know. Thanks!