

There is a **technical research assistant position** available in the laboratory of Prof. Martha Bulyk for a highly motivated individual with prior on-the-job experience in a molecular biology research lab. The lab is in the Division of Genetics at Brigham & Women's Hospital, part of the Harvard Medical School research community in Boston, MA. This research project will focus on studies of protein-DNA interactions by a combination of *in vitro* and *in vivo* approaches to aid in the design of synthetic DNA binding proteins for genome engineering applications.

Required skills include: preparation of solutions and media, growth of bacterial cultures, DNA minipreps, preparation of DNA samples for Sanger sequencing, analysis of Sanger sequencing results, transformation of bacterial cells, preparation of *E. coli* glycerol stocks, restriction enzyme based DNA cloning, DNA and protein gel electrophoresis, PCR, Western blots, Coomassie staining of protein gels. Prior experience with the following techniques would be helpful: electrophoretic mobility shift assays (EMSA), Biacore (SPR) or other assays of protein-DNA binding affinities, expression and purification of recombinant proteins, mammalian cell culture, reporter assays, chromatin immunoprecipitation, preparation of Illumina DNA sequencing libraries, analysis of ChIP-Seq data, DNA sequence motif analysis and other computational sequence analyses, Gateway recombinational cloning, protein binding microarray (PBM) experiments, PBM data analysis. Other duties will include assisting with maintenance of equipment and supplies.

This position provides an excellent opportunity to be involved in cutting-edge research in protein design and genome engineering, and offers a stimulating, academic environment, and the opportunity to work in a team setting. This position also offers the opportunity to gain valuable written and oral communication skills, and the possibility for co-authorship on publications. The highly experienced individual who demonstrates good laboratory practices and interpersonal skills may have the opportunity for future supervisory roles.

A recent Bachelor of Science degree in a biological science or related field is required. Applicants with a bachelor's degree in another area of concentration may be considered if the applicant has had significant coursework in the sciences, has the required prior laboratory work experience, and demonstrates strong potential. Applicant must be able to work in Windows PC and Linux environments and have basic computer proficiency. Some computer programming experience is recommended. A flexible work schedule is required. Fluent command of spoken and written English is absolutely required. Salary negotiable based upon work experience.

To apply for this position, please email a cover letter, CV, and contact information for 3 references to: mlbulyk@receptor.med.harvard.edu

Please be sure to indicate whether visa sponsorship would be required.