

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 located at the Longwood Medical Area in Boston, MA. This position will focus on studies of protein-DNA interactions and DNA regulatory elements by a combination of *in vitro* and *in vivo* approaches in a variety of genomes, including human. These data will aid in understanding mechanisms of transcriptional gene regulation and the impact of genetic variation on gene expression and phenotypes.

Required skills include: preparation of solutions and media, growth of bacterial cultures, DNA minipreps, preparation of DNA samples for Sanger sequencing and analysis of sequencing results, transformation of bacterial cells, preparation of *E. coli* glycerol stocks, restriction enzyme based or Gateway recombinational DNA cloning, PCR, DNA and protein gel electrophoresis, Coomassie staining of protein gels, Western blots. Prior experience with the following techniques would be helpful: expression and purification of recombinant proteins, protein biochemistry, protein-DNA binding assays, chromatin immunoprecipitation, preparation of Illumina sequencing libraries, DNA or protein sequence analysis, reporter assays, fly sorting, mammalian cell culture, immunohistochemistry. Other duties will include maintaining equipment and supplies.

This position provides an excellent opportunity to be involved in cutting-edge research in transcriptional regulation and genomics, and offers a stimulating, academic environment, and the opportunity to work in a team setting involving experimental and computational scientists. This position also offers the opportunity to gain valuable written and oral communication skills, and the possibility for co-authorship on publications and future supervisory roles. This position is ideal for a recent college graduate seeking to gain additional laboratory research experience.

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 have basic Linux proficiency and some computer programming experience. A flexible work schedule is required. Fluent command of spoken and written English is absolutely required.

To apply for this position, please submit a cover letter, CV, and contact information for 3 references via the BWH Careers website, Job Number 3056980:

<https://www.brighamandwomens.org/about-bwh/careers/external-candidates-search-open-positions>

Please be sure to indicate in your cover letter if you would require visa sponsorship.