Research Technologist Position

The Schulz lab at Harvey Mudd College is seeking a full-time research technologist. We are globally interested in how organisms adapt to different environments. Our study system is the African trypanosome parasite, which cycles between a tsetse fly vector and a mammalian host. In humans and animals, the parasite causes a fatal disease called African trypanosomiasis (sleeping sickness). The disease causes a large human and economic burden for people living in Sub-Saharan Africa, where the disease is endemic. In order to adapt itself from living in the bloodstream to living in the fly, the parasite must change the transcript levels of thousands of genes in the genome. We want to know more about the molecular mechanisms behind these changes. Read more about our work at https://sites.google.com/a/g.hmc.edu/schulzlab/.

Primary duties and responsibilities of the position will include supporting the research projects that are ongoing in the lab through parasite cell culture and molecular biology experiments. In addition, the position will include aiding in the design of an undergraduate lab class around the PIs research program. Finally, the technologist will aid in maintenance and ordering of laboratory reagents and stocks. Molecular biology experiments include, but are not limited to, flow cytometry analysis, PCR, cloning, Cut&Run (similar to ChIP-seq), parasite genetic modification, and preparation of libraries for high-throughput sequencing. Experience with standard molecular biology techniques (PCR, western blots, cloning) is required. Background in programming (equivalent to one introductory CS class in python) is preferred. The candidate must have a B.A. or B.S. in an area of the biological sciences by May 2023.

The expected dates of employment are Aug 21, 2023-August 20, 2025, with a possibility of extending the contract by 1 year.

Interested candidates should send a cover letter, CV, unofficial transcript, and contact information for three references to Danae at dschulz@g.hmc.edu.