

JOB DESCRIPTION

Job Title: Computational Research Fellow

Job Code:

Salary Plan: Exempt

Lab: Alter

Direct Supervisor: Galit Alter

Employing Hospital and Department:

Ragon Institute of MGH, MIT, and Harvard

Minimum degree and field of knowledge: MD, PhD, MD/PhD

Years experience required: 0 – 10 years experience

Summary:

A position is open for a full-time Computational Research Fellow at the Ragon Institute of MGH, Harvard and MIT in the laboratory of Galit Alter (<http://www.ragoninstitute.org/portfolio-item/alter-lab/>). The Alter lab specifically focuses on developing novel OMIC technologies aimed at defining correlates of immunity against Infectious Diseases and beyond. These novel technologies seek to integrate disparate data types aimed at probing the immune response wholistically to guide vaccine, therapeutic, and diagnostic design. The Computational Research Fellow will be responsible for applying existing analytical pipelines as well as developing new strategies to probe immune data – in partnership with collaborators from all around the globe. The position is intended to build future computational leaders in the vaccine development arena, aimed at transforming our ability to accelerate the development of interventions to prevent globally infectious pandemics.

We are interested in hiring an enthusiastic individual with a sound understanding of B cell biology and Immunology and a strong interest in immunology and infectious disease.

Job Duties:

Under the direction of the Principal Investigator, the applicant will be asked to independently carry out daily activities and drive large projects.

Computational and related work:

- Perform basic statistical analyses
- Integrate disparate data-types
- Have a solid understanding of different machine learning approaches
- Have a basic understanding of immunology and/or vaccines
- Independently perform routine analyses of large datasets
- Develop and troubleshoot novel computational pipelines
- Ensures quality control of analyses and have a solid understanding of validation strategies

Communication

- Regular communication with supervisor and team/group colleagues (one-on-one and group meetings)
- Present data within and outside of the laboratory group at meetings and symposia
- Work closely within the group and with outside collaborators

- Write, edit, and submit manuscripts/abstracts detailing the results of the project
- Mentor students
- Maintain close communications with the PI regarding progress

Qualifications:

- A Ph.D. or M.D., or an MS with several years of experience
- Strong candidates will have demonstrated interest in the immunology or vaccinology.
- Some knowledge of cellular and molecular immunology
- Independently motivated, detailed orientated and good problem solving ability
- Ability to multi-task and work independently under pressure
- Ability to work in a team environment, meet deadlines, and prioritize and balance work from multiple individuals
- Must be willing to learn and grow

The above job description details the major duties and qualifications of the listed position. The employee hired to this position confirms that he/she is able to perform all duties outlined. Although the specific duties and responsibilities of this position may vary slightly, the supervisor of this position will ensure that the employee hired to this position is trained and qualified to complete each task assigned. If the duties or responsibilities of this position need to change significantly, then the supervisor must submit an updated job description to the Office Manager for review.

Approved by (Print Name)

Signature

Date

Supervisor (Print Name)

Signature

Date

New Hire Employee (Print Name)

Signature

Date