MULTIPLE MYELOMA Research Foundation

INTERNSHIP REQUISITION FORM

Department	Translational Research
Hiring Manager's Name	Chuck Acharya
Specific Project(s) to be Assigned	1) Interrogate immune single cell RNA sequencing data from patients with multiple myeloma 2) Interrogate whole genome sequencing data to mine somatic and germline variants of patients with multiple myeloma 3) Statistical analyses of high throughput genomic data
Identify how this/these project(s) will advance organizational goals	This is an effort to actively contribute to several cutting-edge research projects within our Virtual Lab platform, leveraging harmonized data from thousands of Multiple Myeloma patients.
Duration of Internship	May – September 2024
Do you have a Candidate identified (Full Name)? If yes, attach resume to email to expedite process	NA
Work Location: Office or Home-based; # of days in the Office	Home-based
Interviewer:	Chuck Acharya, Jessica Schulman, Alex Gout
Expected Start Date:	TBD

Requirements:

- Currently pursuing a Master's or Ph.D. in data science, epidemiology, biostatistics, bioinformatics, or a related field.
- Background in cancer genomics (working knowledge of single cell RNAseq, bulk RNAseq and whole exome sequencing data) is preferred.
- Proficiency in scripting languages such as R or Python.
- Ability to work independently in a fast-paced environment.
- Excellent organizational and communication skills.
- Experience in a UNIX environment.

Approver's Name: (Leadership Team Member ONLY)	Francesca LaRosa

Title: Intern, Clinical Operations
Reports to: Sr. Manager, Clinical Operations
Department: Clinical Operations
Location: Remote

MMRF OVERVIEW:
The Multiple Myeloma Research Foundation (MMRF) is the largest nonprofit in the world solely focused on accelerating a cure for each and every multiple myeloma patient. We drive the development and delivery of next-generation therapies, leverage data to identify optimal and more personalized treatment approaches, and empower myeloma patients and the broader community with information and resources to extend their lives. Central to our mission is our commitment to advancing health equity so that all myeloma patients can benefit from the scientific and clinical advances we pursue. Since our inception, the MMRF has committed over $600 million for research, opened nearly 100 clinical trials, and helped bring 15+ FDA-approved therapies to market, which have tripled the life expectancy of myeloma patients. To learn more, visit www.themmrf.org.

MMRF Core Values:

At the MMRF our core values define both who we are and how we work together as an organization. We believe in investing in our team and building a culture that will help us pursue our highest level mission to accelerate a cure for each and every multiple myeloma patient. Our five core values are expressed below:

1. Prioritize Patients - Patients are at the center of everything we do. Every decision we make is grounded in the needs and best interests of the patients we serve.
2. Drive Innovation - We are committed to pursuing big, bold ideas. Taking risks, trying new approaches, and challenging the status quo are necessary to speed new discoveries.
3. Deliver Solutions - Taking on complicated challenges is what sets us apart. To deliver results, we must be decisive, take action, and act with urgency on behalf of the myeloma community.
4. Do It Together - We know that together, we are stronger. We work cross-functionally with the entire community to achieve our mission and are invested in the success of others.
5. Build Trust - We build trust-based relationships. We advocate for each and every myeloma patient by committing to diversity, equity, and inclusion and treating others with respect.

Responsibilities:

- Collaborate with the in-house bioinformatics and Translational Research team to analyze and interpret large-scale genomic and transcriptomic datasets.
- Implement and optimize existing bioinformatics pipelines for data processing, analysis, and visualization.
- Assist in the development and testing of new bioinformatics tools and algorithms within MMRF's Virtual Lab environment.
- Contribute to the integration of diverse biological datasets to extract meaningful insights.
- Perform statistical analyses and generate visualizations to aid in data interpretation.

The intern will be expected to contribute on several projects and select one for expansion and presentation to the MMRF community at the conclusion of the internship.

Qualifications:

- Currently enrolled in a graduate program in genomics, bioinformatics, computational biology, or a related field.
- Strong programming skills in languages such as Python, R, or Perl.
- Working knowledge of AWS cloud computing is a bonus.

- Experience analyzing scRNAseq, bulk RNAseq and WGS data
- Familiarity with clinical data harmonization.
- Excellent problem-solving skills and attention to detail.
- Strong communication skills and the ability to work collaboratively in a team environment.

EEO Statement

The Multiple Myeloma Research Foundation (MMRF) is an equal opportunity employer and does not discriminate against any candidate based on race, religious creed, color, national origin, ancestry, physical disability, mental disability, medical condition, genetic information, marital status, sex, gender, gender identity, gender expression, age, military and veteran status, sexual orientation, or any other factor protected by federal, state, or local law.