



Title: Intern, Research
Reports to: April Cook, Senior Scientist of Research
Department: Research
Location: Remote

MMRF OVERVIEW:

A pioneer in precision medicine, the Multiple Myeloma Research Foundation (MMRF) seeks to find a cure for all multiple myeloma patients by relentlessly pursuing innovations that accelerate the development of precision treatments for cancer. Founded in 1998 by Kathy Giusti, a multiple myeloma patient, and her twin sister Karen Andrews as a 501(c)(3) nonprofit organization, the MMRF has created the business model around cancer—from data to analytics to the clinic. The MMRF identifies barriers and then finds the solutions to overcome them, bringing in the best partners and aligning incentives in the industry to drive better outcomes for patients. Since its inception, the organization has collected thousands of samples and tissues, opened nearly 100 trials, helped bring 13 FDA-approved therapies to market, and built CoMMpass, the single largest genomic dataset for any cancer. Today, the MMRF is building on its legacy in genomics and is expanding into immune oncology, as the combination of these two fields will be critical to making precision medicine possible for all patients. The MMRF has raised nearly \$500 million and directs nearly 90% of the total funds to research and related programs. To learn more, visit www.themmr.org

The mission of the MMRF is to accelerate a cure for each and every myeloma patient. We know that multiple myeloma is different in every patient. Our goal is to generate and collect as much patient data as possible and make it available to researchers worldwide, to speed new discoveries and propel new clinical options for myeloma patients into the clinic as quickly as possible.

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.

Position Overview:

Research Summer Intern - 2023

The Research Team at the Multiple Myeloma Research Foundation (the MMRF) will provide a master's or Ph.D. candidate level bioinformatician the opportunity to enrich their professional development by spending a summer integrated with a leading cancer research organization, supporting systematization of a cloud-based data lake and analyzing omics data derived from >1,000 cancer patients. For over 20 years, MMRF has earned a reputation for driving successful research initiatives and generating very large high-quality genomic and clinical datasets from thousands of myeloma patients. These projects are a partnership across numerous pharmaceutical companies, academic centers and hospitals, and the data enable researchers from these sites and the MMRF to make ground-breaking discoveries that enable new clinical and translational studies for myeloma patients.

The MMRF will work with students to fulfill necessary internship requirements concerning hours, tasks, etc. Please specify any requirements when applying.

Project(s): (Please list 1-3 specific projects that can be started and finished within the time frame of the internship):

- Data handling in MMRF VLab platform to do descriptive statical analysis on data sets ingested into VLab
- Run workflows established in VLab platform that are intended for demo projects and produce a series of outputs to be used internally and externally for the assessment of the platform
- Carry out preliminary analysis towards internal research projects on risk and/or pfs from the projects list established by research/informatics team

Qualifications:

- Master's or Ph.D. candidate level bioinformatician candidates (focus on science, bioinformatics preferred)
- Passion for patient-centered innovation
- Proficiency in Microsoft Office or other office computer tools
- Excellent organizational skills and ability to multi-task
- Process-oriented and a strong attention to detail.
- Excellent communication skills, verbal and written.
- Customer service etiquette
- Ability to work independently in a fast-paced environment
- Critical thinking, proactivity, flexibility, and resourcefulness.
- Analytical Abilities: Science (Biology) background
- Experience working in a UNIX environment
- Scripting experience (e.g. R or python)
- Familiar with clinical data harmonization
- Experience in analyzing high throughput sequence data (RNA-seq DNA-seq scRNA-seq epigenetics)
- Molecular biology or Immunology proficiency

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.