

**Title: Bioinformatician****Reports to:** VP, Informatics**Department: Informatics****Location:** Norwalk, CT (or 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](http://www.themmr.org)

The mission of the MMRF has always been to provide a cure for each and every 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:**

The MMRF is seeking a highly motivated individual to collaborate closely with bioinformaticians, molecular biologists, researchers, and software engineers to build the MMRF bioinformatics infrastructure across an expanding set of modern assays. The successful applicant will work closely with MMRF researchers and academic bioinformaticians to understand and help accomplish research goals by supporting large-scale multi-institutional myeloma multi-omic database, with responsibilities related to data standardization, data management, data harmonization, data storage, and analysis pipeline development on cloud environments. As the Bioinformatics Data Lead/Subject Matter Expert (SME), you will collaborate and interact with scientists to understand the subject domain and find opportunities to accelerate our work. This an infrastructure role supporting MMRF research initiatives.

**Essential Functions:**

- Apply expert knowledge in the design and oversight of batch uploading and workflows to support the ingestion, quality control, and harmonization of large-scale -omics data.
- Use knowledge of -omic assays to develop, establish, and maintain data standards and documentation requirements for data partners to optimize data harmonization strategies.
- Provide technical leadership and subject matter expertise for software development of MMRF Virtual Lab and Immune Platform with vendors - establishing and maintaining detailed documentation, including project plans, data dictionaries, and guidelines for multi-omic metadata and data.
- Ensure data quality control is consistently applied to incoming datasets.
- Establish and maintain data management protocols and documentation for the storage and sharing of multi-omic data, metadata, and other complex datasets in the cloud.
- Assist in the maintenance of data and metadata in MMRF's Immune Atlas platform and external data storage backups including Google Cloud Platform.
- Manage data sharing initiatives with external partners. Provide programming and trouble-shooting support to partners in the uploading and dissemination of data.
- Provide training and technical support to MMRF researchers, academic partners, and other partners for accurate and efficient data collection and inventory.
- Interact with physicians, scientists, and bioinformaticians to provide statistical and bio-computational support for experimental design, meta data, data processing, and data analysis procedures. The applicant is expected to deliver reports in written or oral formats in a concise way with visualization.

**Qualifications:**

- MS or PhD in Bioinformatics or Computational biology or related field.
- A minimum of 3-5 years of work experience required.
- Strong background and interest in cancer genomics and multi-omics with experience managing complex bioinformatics projects, including stakeholder management, and ability to multitask multiple project deadlines.
- Experience using genomic, -omic data standards and ontologies.
- Experience with -omic assay data like scRNAseq and CyTOF.
- Experience with database design and development.
- Working experience with -omic data sharing platforms, like dbGAP and HTAN.
- Experience utilizing native cloud infrastructure for serverless database management, and batch computing (AWS/GCP).



**Bioinformatician**

**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.