

Title: Scientist

Reports to: Sr. Scientist

Department: Research

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

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 Research team carries out activities ranging from interventional trial-related translational research, longitudinal biosample repository oversight and related research, research grant oversight, to various academic and biopharmaceutical research project partnerships. The resulting MMRF data repository represents one of the most extensive multiomic and translational research resources for a single cancer in oncology research.

The Scientist will be responsible for leading development and application of computational workflows towards analysis of multiomic, clinical, and functional data in the context of biological studies of multiple myeloma. Particular emphasis will be given to studies addressing patient risk, therapy response, and biomarker discovery towards more effective personalized therapy and cure in multiple myeloma. The Scientist will work in multidisciplinary teams with strong collaboration across all areas of the organization as well as engage in external communications with MMRF stakeholders across academia and industry. This role requires a creative, high-performing, and proactive individual who demonstrates outstanding scientific knowledge and experience in cancer research, management and communication skills, and high personal and ethical standards.

Essential Functions:

- Oversee key aspects of analysis in various MMRF translational omics research initiatives in support of our mission to accelerate a cure for each and every multiple myeloma patient.
- Identify, evaluate, support, and apply computational tools, workflows, and statistical methods for understanding multiple myeloma biology, including analysis of multiomic and clinical data.
- Communicate effectively with team members and leadership to relay progress and challenges, and implement creative solutions
- Develop and maintain relationships with stakeholders in academics and industry, and represent MMRF at conferences
- Contribute significantly to the development and dissemination of lay and scientific communications, including abstracts, papers, and presentations
- Work closely with bioinformatics team to communicate and coordinate data analysis needs for establishing new bioinformatic pipelines or modifying existing pipelines to ensure timely analysis
- Other duties assigned by manager or designee

Qualifications:

- PhD degree in Bioinformatics / Computer Science / Life Science or related field with minimum of 2 years post-doctoral experience in cancer omics; blood cancer and/or immunology experience with experience working on multiple myeloma strongly preferred
- Demonstrated experience in translational systems biology (applied in the area of blood cancer and/or immunology) to integrate data types (e.g. omics, functional and clinical data) to facilitate biomarker and insight generation (e.g. co-expression analysis, protein-protein interaction networks, knowledge graphs, multi-scale multi-response network analysis)
- Highly skilled user of programming languages such as Python and R with a focus on documentation and version control
- Experience in data mining and machine learning methods (e.g. PCA, support vector machines, clustering)
- Working knowledge of cloud-based computing and linux platforms. Demonstrated ability to learn and master purpose-driven bioinformatics tools and platforms such as github, Bioconductor, star, Seurat, BWA, MACS2, samtools, imagej, psql, tSNE, and Docker

- Excellent analytical and interpersonal verbal and written communication skills, demonstrated by publication record in peer-reviewed journals
- Able to multi-task while quickly adjusting to challenges and pivoting in a solution-oriented fashion
- Knowledge of academic-pharma translational research collaboration
- Able to influence widely across diverse internal and external audiences
- Sense of urgency, creative problem solving

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.