Associate or Full Professor of Biomedical Engineering and Regenerative Medicine
Icahn School of Medicine at Mount Sinai, New York, NY

The BioMedical Engineering and Imaging Institute (BMEII) at the Icahn School of Medicine at Mount Sinai (ISMMS), in partnership with Rensselaer Polytechnic Institute, is seeking mid to senior level faculty members to spearhead a novel research initiative in the engineering of reparative and regenerative Medicine. Candidates will be collaborative, and highly innovative scientists and bioengineers whose research focuses on generating new platforms for disease modeling, functional interrogation of human gene variants and mutations, and therapeutic screening. We are particularly interested in researchers who are using non-invasive or minimally invasive characterization of organoids and other micro-physiological systems with multiple high-throughput tools; the use of AI/ML-based models for functional assessment; and development of multi-organ systems that can be used to model tissue interactions.

The primary goal of BioMedical Engineering and Imaging Institute is to develop unique approaches to biomedical sciences and therapeutic interventions by bridging basic and translational research and education by leveraging expertise in medicine and engineering. Specific focus areas include medical imaging, nanomedicine, artificial intelligence, sensor technologies, next generation medical devices, robotics and computer vision.

This will be a joint position between BMEII and the newly established Center for Engineering and Precision Medicine (CEPM). The CEPM is a unique joint initiative between the Icahn School of Medicine and Rensselaer Polytechnic Institute, bringing together bioengineers and basic and translational biologists in a collaborative environment geared towards accelerating therapeutic discovery. The CEPM is located in an exceptional new state-of-the-art facility in mid-town Manhattan. This faculty member will also enjoy a joint appointment in the institute of Regenerative Medicine (IRM), directed by Sarah Millar, Ph.D. IRM's mission is to synergize, integrate and accelerate basic, translational, and clinical research and education in regenerative medicine.

Moreover, the Center is in the process of establishing an Engineering Medicine PhD program and CEPM Development Labs, with a focus on commercializing and translating new technologies into patient care. This represents a distinctive opportunity to contribute to the dynamic expansion of bioengineering research in medicine at the heart of New York City.

Roles and responsibilities:

- Perform novel independent research in the field of artificial intelligence and translation to medicine;
- Identify opportunities for collaboration to translate artificial intelligence and translation to medicine innovations to clinical practice;
- Play a key role in strengthening and contributing to the Engineering Medicine PhD program;
- Participate in strategic decision making and administration of CEPM;
- Mentor students and postdoctoral scholars within BMEII/CEPM

Desired qualifications:

- Candidates should hold a Ph.D., M.D., V.M.D., M.D./Ph.D. or equivalent degree and are expected to participate in research and graduate student mentoring and teaching.
- Doctoral degree and post-doctoral training, with expertise in Reparative & Regenerative Medicine
- Established track record of NIH or NSF funding;
- National and international recognition for high impact research;
- Ability to work collaboratively and bring a novel perspective to Artificial Intelligence and Translation to Medicine research.

Interested individuals should send a CV and a brief statement of interest to Teresa Lotz (teresa.lotz@mssm.edu)

Compensation Statement
The Mount Sinai Health System (MSHS) provides a salary range to comply with the New York City Law on Salary Transparency in Job Advertisements. The salary range for this role is $80,000.00 - $180,000.00 Annually. Actual salaries depend on a variety of factors, including experience, education, and hospital need. The salary range or contractual rate listed does not include bonuses/incentive, differential pay or other forms of compensation or benefits.

Non-Bargaining Unit

About the Mount Sinai Health System:

Mount Sinai Health System is one of the largest academic medical systems in the New York metro area, with more than 43,000 employees working across eight hospitals, more than 400 outpatient practices, more than 300 labs, a school of nursing, and a leading school of medicine and graduate education. Mount Sinai advances health for all people, everywhere, by taking on the most complex health care challenges of our time — discovering and applying new scientific learning and knowledge; developing safer, more effective treatments; educating the next generation of medical leaders and

innovators; and supporting local communities by delivering high-quality care to all who need it. Through the integration of its hospitals, labs, and schools, Mount Sinai offers comprehensive health care solutions from birth through geriatrics, leveraging innovative approaches such as artificial intelligence and informatics while keeping patients' medical and emotional needs at the center of all treatment. The Health System includes approximately 7,400 primary and specialty care physicians; 13 joint-venture outpatient surgery centers throughout the five boroughs of New York City, Westchester, Long Island, and Florida; and more than 30 affiliated community health centers.

The Mount Sinai Health System is an equal opportunity employer. We comply with applicable Federal civil rights laws and does not discriminate, exclude, or treat people differently on the basis of race, color, national origin, age, religion, disability, sex, sexual orientation, gender identity, or gender expression. We are passionately committed to addressing racism and its effects on our faculty, staff, students, trainees, patients, visitors, and the communities we serve. Our goal is for Mount Sinai to become an anti-racist health care and learning institution that intentionally addresses structural racism.

EOE Minorities/Women/Disabled/Veterans