

Postdoctoral Research Fellow

Hasso Plattner Institute for Digital Health

Icahn School of Medicine at Mount Sinai

Locations: New York, New York

Job Description

Strength Through Diversity

Ground Breaking Science. Advancing Medicine. Healing Made Personal.

We are inviting applications for a Postdoctoral Research Fellowship position in digital health-personalized medicine with a specific interest in applications to electronic health records (EHR), digital technologies in human health, and its innovative integrations.

The institute has a vested interest in using advanced data science methodologies and digital technologies to push forward precision medicine and personalized health services. Key topics of interest include but are not limited to: predictive modeling for disease outcomes and personalized therapeutic recommendations, development and/or implementation of digital and sensor technologies on mobile devices, and multimodal data integration.

The successful candidate will be assigned to and work with research teams under supervision of the PI at the Digital Discovery Program of the Hasso Plattner Institute for Digital Health at Mount Sinai. The digital discovery program (DDP) at HPI.MS seeks to integrate multi-modal data including wearable, self-reported, genomic, environmental and other data using patient-centered approaches, and to provide a scalable and compliant digital framework for clinical evaluation of digital interventions/therapeutics.

The position will be supported initially from the Smart4Health (www.smart4health.eu) international consortium, funded by a contract from the European Union Horizon 2020 Program. The objective of the S4H consortium is to develop a prototype user-centric platform for personalized health data management and exchange and personalized health services on mobile devices.

Position Requirements

The ideal candidates will have the following background:

1. PhD, MD, or MD/PhD in a quantitative science-related field (e.g., biomedical informatics, clinical informatics, machine learning, biostatistics, genetics, etc).
2. Significant experience in machine learning techniques is preferred, ideally with published work and/or code available. Expertise with deep learning frameworks is preferred (e.g., Tensorflow, PyTorch, Keras).
3. Expertise with programming and statistical software experience in R and/or Python.
4. Prior experience with digital health studies is a strong advantage.
5. Excellent publication track record.
6. Strong communication and presentation skills with fluency in spoken and written English.

Strength Through Diversity

The Mount Sinai Health System believes that diversity, equity and inclusion are drivers for excellence. We share a common devotion to delivering exceptional patient care. Yet we're as diverse as the city we call home- culturally, ethically, in outlook and lifestyle. When you join us, you become a part of Mount Sinai's unrivaled record of achievement, education, and advancement as we revolutionize medicine together and participate actively as a leader within the Mount Sinai Health System by:

- Serving as the primary resource management representative of the Mount Sinai leadership teams, committees, etc., and acting as the primary executive leader interface between Mount Sinai and key executives from the health systems' vendors and partners.
- Engaging with relevant thought leaders and policy-makers at the federal and state levels, and representing the Health System as assigned.
- Using a lens of equity in establishing and promoting policies and procedures and providing opportunities for all to thrive.
- Confronting racist, sexist or other inappropriate behavior and challenges exclusionary organizational practices and serving as a role model to promote anti-racist behaviors.
- Inspiring and fostering an environment of anti-racist behaviors among and between departments and co-workers.

We work hard to acquire and retain the best people, and to create a welcoming, nurturing work environment where you can develop professionally. We share the belief that all employees, regardless of job title or expertise, can make an impact on quality patient care.

Explore more about this opportunity and how you can help us write a new chapter in our story!

Who We Are

Over 42,000 employees strong, the mission of the Mount Sinai Health System is to provide compassionate patient care with seamless coordination and to advance medicine through unrivaled education, research, and outreach in the many diverse communities we serve.

Formed in September 2013, The Mount Sinai Health System combines the excellence of the Icahn School of Medicine at Mount Sinai with seven premier hospital campuses, including Mount Sinai Beth Israel, Mount Sinai Beth Israel Brooklyn, The Mount Sinai Hospital, Mount Sinai Queens, Mount Sinai West (formerly Mount Sinai Roosevelt), Mount Sinai Morningside (formerly Mount Sinai St. Luke's), and New York Eye and Ear Infirmary of Mount Sinai.

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.

EOE Minorities/Women/Disabled/Veterans