MAYO CLINIC

Heal the sick, *Advance* the science, *Share* the knowledge.

Health Care Systems Engineer

Faculty Position: Department of Health Sciences Research

We invite you to join a cutting edge Health Care Systems Engineering Research Program at Mayo Clinic.

The Health Care Systems Engineering Section in the Department of Health Sciences Research at Mayo Clinic is seeking an engineer with the drive, knowledge, collaborative nature and skills to enhance patient and provider experience, improve health, and manage or reduce the cost of health care through engineering solutions.

The ideal Engineer/Scientist must have a PhD in Industrial Engineering, Operations Research, Human Factors, Clinical Engineering or a related engineering field. Experience in health care and the ability to collaborate with clinicians are essential. Candidates will be given the opportunity to lead innovative and collaborative research in a multidisciplinary, clinical or embedded research setting. The successful candidate must possess expertise in operations research, human factors/ergonomics, or mobile health development in patient care, provider assistance, and performance optimization or other clinical application. Applicants must have demonstrated successful partnerships with industry or large health care organizations in the development of innovative solutions for patient care and provider effectiveness. A strong track record of extramural funding is required.

The Healthcare Systems Engineering (HSE) team applies engineering expertise and infrastructure to evaluate, design, and re-engineer the health care delivery operations to improve health, enhance the care experience, and contain or reduce costs of health care delivery. The team conducts applied research to impact clinical practice in meeting the needs of patients and providers. The HSE section has faculty members leading research in human factors & ergonomics and information & decision sciences, while translating those using engineering principles. The team focuses research on improving technology and healthcare work systems to be as effective as possible within the physical and psychological limitations of clinicians, staff, and patients. Physical and cognitive workload of clinical teams in understanding and optimizing operative work systems, provider performance, and well-being is also studied.

Additionally, the HSE team creates systems and optimization solutions for better prioritization and scheduling of patients to improve patient safety and access. The successful candidate will have the opportunity to conduct research in collaboration with scientists, and clinicians in across diverse research centers and programs within the institution.

MAYO CLINIC is ranked number one in more specialties than any other hospital in the nation for 2017-2018 by *U.S. News and World Report*. We are an integrated, multidisciplinary academic medical center featuring comprehensive programs in medical education and research with campuses in Rochester, Minnesota; Jacksonville, Florida; and Scottsdale, Arizona. The position will be located at one of these three sites. We support a vibrant research enterprise, with programs in basic, translational, clinical, and population sciences. We offer a highly competitive compensation package with sustained intramural funding, technical and computational resources, and exceptional benefits

TO APPLY please visit **jobs.mayoclinic.org** and reference job posting #**97735BR**. Applications should include a cover letter, CV and research statement. **Please apply by May 11 to be considered for this position.**

Questions can be directed to:
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jobs.mayoclinic.org