Neuromodulation Faculty Scholars
Second Hiring Round

The Minnesota Discovery Research InnoVation Economy (MnDRIVE) is a $36 million recurring investment by the state of Minnesota in groundbreaking research at the University of Minnesota. The goals of MnDRIVE are to advance Minnesota’s economy, enhance Minnesota’s competitive advantage, extend Minnesota’s position as a national leader in key industries, and improve the health and quality of life for Minnesota’s citizens. Discoveries and treatments for brain conditions is one of the four areas identified for substantial recurring investment.

MnDRIVE Discoveries and treatments for brain conditions supports the critical core functions of basic and translational neuromodulation research, clinical trials, and workforce development through traineeships in neuromodulation. A consortium of departments that includes Biomedical Engineering, Neurology, Neuroscience, Neurosurgery, Physical Medicine & Rehabilitation, and Psychiatry, seeks to recruit up to 7 MnDRIVE Neuromodulation scholars with expertise that range from novel approaches to neuromodulation, the mechanisms of deep brain stimulation, transcranial stimulation and other noninvasive approaches, and optimizing the application of neuromodulation to a spectrum of neurological and psychiatric disorders.

A successful first round of hiring was recently completed, resulting in the recruitment of 4 outstanding tenure-track scholars. For the second round of hiring, the consortium seeks to recruit scholars with expertise that includes:

- Novel engineering/biological aspects such as electrode and circuit design, current steering, closed loop control, neural interfacing and modeling.
- Dynamic brain mapping to optimize neuromodulation through identifying individualized biomarkers of disease and mapping responses to neuromodulation
- Neuromodulation in psychiatric disorders, addiction or pain to evaluate optimal stimulation paradigms, identify brain targets and define patient populations
- Noninvasive stimulation for the treatment of neurological and psychiatric brain disorders with the goal to understand how these modalities alter neural circuits and how to maximize clinical effectiveness.

Applications will be accepted for tenure/tenure track appointments at the Assistant, Associate and Professor levels. The key criteria include, but are not limited to, scientific accomplishment, potential impact of future research, the ability to integrate with existing programs and translational initiatives with industry. Successful candidates must demonstrate the capability to establish a vigorous, externally-funded research program, a commitment to medical, graduate or undergraduate education, and leadership through vision and collaborative, transdisciplinary program development.

Candidates for these faculty appointments will have Ph.D. and/or M.D. degrees and established programs or experience in neuromodulation. Successful recruits will receive substantial salary recurring support from MnDRIVE, an excellent startup package, and laboratory space. Departmental affiliation will be determined by a combination of the applicant’s research interests and relevance of applicant’s research program and teaching clinical interests to departmental mission. For Assistant Professor appointments, candidates are expected to have relevant doctoral and postdoctoral training and research accomplishments consistent with developing a nationally recognized and independent research program. Associate or Full Professor appointments require demonstrated independence and research productivity, including a strong track record of major external funding and peer-reviewed publications. Candidates must be U.S. citizens, permanent residents or be eligible to secure permanent residence status. The starting date is negotiable, with appointments available as soon as spring, 2015. The University of Minnesota is committed to diversifying its faculty and encourages applications from women and minorities.

Review of applications will commence October 30, 2014 and continue until the positions are filled. Applicants should send curriculum vitae, statement of research interests and intentions, and three letters of reference to: MnDRIVE: Brain Conditions Faculty Search Committee, Attention: Rosalyn Segal, Medical School Dean's Office, MMC 293, 420 Delaware Street S.E., Minneapolis, MN 55455. Email: mnbcsch@umn.edu. Electronic versions of the required information should be e-mailed but must be followed with a hard-copy for the official search files. Applications will not be reviewed until ALL materials have been received electronically. Applicants must also complete the online application. This may be found at employment.umn.edu under requisition #194124 or by using the quick-link: http://employment.umn.edu/applicants/Central?quickFind=124147. The University of Minnesota is an equal opportunity educator and employer.