

## Integrative Graduate Education and Research Traineeship (IGERT)



### Systems Neuroengineering

*Interacting with the Brain: Mechanisms, Optimization, and Innovation*



## Interdisciplinary Training Program

**Become the future of systems neuroengineering.** The University of Minnesota is home to an Integrative Graduate Education and Research Traineeship (**IGERT**) program in **Systems Neuroengineering**, sponsored by the National Science Foundation (NSF). Bright, high-achieving students who are admitted to a University of Minnesota's Ph.D. program in Biomedical Engineering, Electrical Engineering, Mechanical Engineering, or Neuroscience are eligible for this prestigious training program. The program provides a generous stipend and tuition coverage as well as access to cutting-edge research in neuroengineering. Minnesota is also home to the largest collection of medical device manufacturers in the world and our program provides opportunities for IGERT trainees to gain practical experience working with these companies. Through our education and research-training model, students in our program learn to develop the skills to revolutionize neurotechnologies and advance our understanding of neuroscience processes underlying these technologies.

### Program Faculty

The Systems Neuroengineering IGERT Program has over 40 outstanding faculty members who have made significant contributions to neural decoding, neuromodulation, neural interfacing, and neuroimaging research, and who are committed to graduate training. Many of them are world class leaders who have shaped where the field is in cutting-edge research, including noninvasive brain-computer interface controlling quadcopter, deep-brain stimulation, high field MRI imaging, and dynamic brain mapping.

### Key Program Features

- Choice of research advisors from over 40 participating training faculty across engineering and brain sciences
- Joint faculty mentoring and team advising of research
- Tailored neuroengineering graduate curriculum
- Lab rotations in engineering and basic/clinical brain sciences
- Industrial internship rotations
- Generous stipend (\$30,000/year for up to two years on IGERT program) and tuition coverage

### Eligibility Requirements

Trainees must be U.S. citizens or permanent residents who have been admitted to one of the four participating University of Minnesota doctoral programs: **Biomedical Engineering**, **Electrical Engineering**, **Mechanical Engineering**, and **Neuroscience**. For more information on this highly selective training program and how to apply, please visit our website at <http://www.igert-ne.umn.edu/>, or contact us at [igert-ne@umn.edu](mailto:igert-ne@umn.edu).

