

SUMMER FELLOWSHIP ANOUNCEMENT: THE CINT INNOVATION FELLOWSHIP

SPONSORED BY:

The Center for Innovation in Neuroscience & Technology (CINT)
The Department of Neurological Surgery
The Stryker Corporation/The School of Engineering
The Olin School of Business

Background and Summary of Fellowship:

In technically oriented fields such as neurosurgery and neuro-interventional radiology, technical innovation and leadership are synonymous. For biomedical engineers, successful conceptualization and implementation of ideas requires fundamental understanding of the practice of medicine. To engage these emerging trends the Center for Innovation in Neuroscience and Technology (CINT) is creating a unique educational experience for neurosurgical residents and engineering students. The summer program will involve faculty and residents from the Department of Neurological Surgery and faculty and students from the School of Engineering who together will design, and create innovative medical device prototypes for clinical neurosurgical practice.

Goals and Implications:

Engineers will learn to communicate with people from medical backgrounds to more effectively envision, articulate, and implement ideas to improve the practice of neurosurgery.

The aims of the projects are:

1. Understand process of idea generation and steps towards development and practical application
2. Enhance creativity in generation of new ideas and critical evaluation of current technologies
3. Develop cross-disciplinary medical and engineering thinking skills and interaction
4. Improve neurosurgical understanding of engineering principles involved in creation of new medical devices
5. Improve engineering understanding of clinical principles involved in creation of new medical devices
6. The support of Stryker Corporation will provide exposure and interactions with a leader in the medical device industry

Experience:

Teams will consist of neurosurgical and engineering faculty, engineering and business students, and a neurosurgical resident. The residents and students will design, draft, and create the prototype of an original concept. This team approach will give each team member experience in communicating with members from different technical and medical backgrounds. At the end of the fellowship, the teams will be taken to the corporate office of Stryker to present their design for industry evaluation.

Application:

Eligibility: Applicant must be a third or fourth year full time student in the School Business or Engineering.

Deadline for Application: Feb 23, 2018. **Notification of Award:** March 23, 2018.

Salary/Duration : \$4000 (May 17 – August 24, 2018)

Applications should consist of the following:

1. Official course transcripts
2. One letter of recommendation from business or engineering faculty
3. A 500 word cover letter which describes your interest and summarizes your creative experience and talents

Send completed application to:

Eric C. Leuthardt, MD

Director, Center for Innovation in Neuroscience and Technology

Department of Neurological Surgery, 660 South Euclid, Campus Box 8057, St. Louis, MO 63110

<http://cint.wustl.edu/>