

GETTING TO THE HEART OF RESEARCH

Cardiovascular Bioengineering Training Program (CBTP)

The Department of Bioengineering at the University of Pittsburgh has been awarded a highly competitive training grant from the National Institutes of Health to support a distinctive doctoral training program. Our Cardiovascular Bioengineering Training Program (CBTP) educates talented students from engineering and other quantitative sciences for careers in cardiovascular biomedical research. As part of the CBTP, we are actively soliciting applicants interested in a career in the broad area of cardiovascular bioengineering to pursue a PhD degree in bioengineering at Pitt's Swanson School of Engineering.

PROGRAM FOCUS

- Basic understanding and quantitative characterization of native and perturbed (i.e., with deployment of man-made devices or constructs) cardiovascular function at various levels of organization (cell, tissue, whole organ).
- Imaging for functional assessment at various levels of organization.
- Design and optimization of artificial devices and constructs (mechanical, tissue-engineered, and hybrid).

CLINICAL ROTATIONS

One novel aspect of the program is that students are required to formally participate in a clinical experience (Clinical Internship and Rotation) in the following areas: Clinical Artificial Heart Program, Adult and Pediatric Cardiology, Critical Care Medicine, Radiology, Cardiology, and Vascular Surgery.

STUDENT SUPPORT

Awardees will receive support in the form of a monthly stipend, tuition scholarship, health insurance, and travel budget.

TO APPLY

For application information please visit the CBTP web site at www.engineering.pitt.edu/CBTP or e-mail Dr. Sanjeev Shroff at sshroff@pitt.edu. Must be a U.S. citizen or permanent resident to be eligible to apply.

THE CAMPUS

Most importantly for our graduate students, Pitt is an urban campus in one of the most livable cities. Its world-class research institutions, corporate headquarters, public amenities, healthcare, low cost of living and relative safety have earned Pittsburgh accolades from *Forbes*, *Kiplingers*, *National Geographic*, *The Economist*, and *US News & World Report*. Both the University and the City provide the perfect match for an outstanding graduate school environment.

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