BIOMEDICAL ENGINEERING

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M.S., M.Phil., Ph.D.

Chair
Jay Humphrey

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Professors Richard Carson, Nicholas Christakis, Robin de Graaf, James Duncan, Karen Hirschi, Jay Humphrey, Fahmeed Hyder, Andre Levchenko, Evan Morris, Laura Niklason, Xenophon Papademetris, Douglas Rothman, W. Mark Saltzman, Martin Schwartz, Fred Sigworth, Brian Smith, Lawrence Staib, Hemant Tagare, Paul Van Tassel, Steven Zucker (Computer Science)

Associate Professors Joerg Bewersdorf (Cell Biology), Stuart Campbell, Michael Choma, Tarek Fahmy, Rong Fan, Anjelica Gonzalez, Themis Kyriakides (Pathology), Chi Liu, Kathryn Miller-Jensen

Assistant Professors Michael Mak, Michael Murrell, Steven Tommasini, Jiangbing Zhou

FIELDS OF STUDY

Biological and medical devices, biological signals and sensors, biomaterials, biomechanics, biophotonics, computational medicine, computer vision, digital image analysis and processing, drug delivery, energy metabolism, gene therapy, modeling in mechanobiology, MRI, MRS, PET and tracer kinetic modeling, nanomedicine, network analysis, the physics of image formation (MRI, optics, ultrasound, nuclear medicine, and X-ray), physiology and human factors engineering, signaling pathways, systems biology, systems medicine, tissue engineering and regenerative medicine, and vascular biology.

For admissions and degree requirements, see Engineering & Applied Science.

For course listings, see Engineering & Applied Science.