Biomedical Engineering
(A Graduate Group)

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Faculty

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Keith Baar, Ph.D., Assistant Professor (Neurology, Physiology, and Behavior)

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Alexander Mogilner, Ph.D., Professor (Mathematics)

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Susan M. Stover, B.Y.V.M., Ph.D., Professor (Anatomy, Physiology and Cell Biology)

Julie Stults, Ph.D., Associate Professor (Biomedical Engineering, Medicine: Hematology and Oncology)

Ilias Tagkopoulos, Ph.D., Assistant Professor (Computer Science, Genome Center)

Yoshikazu Takada, M.D., Professor (Dermatology)

Chee Meng Tan, Ph.D., Assistant Professor (Bioengineering)

Alice Tanantal, Ph.D., Professor (Pediatrics, Cell Biology and Human Anatomy, Medicine)

Sebastian Wachsmann-Hogiu, Ph.D., Associate Professor (Pathology and Laboratory Medicine)

John Wener, Ph.D., Professor (Ophthalmology)

Jeffrey Walton, Ph.D., Associate Research Physicist (NMR Facility)

Keith R. Williams, Ph.D., Senior Lecturer (Neurology, Physiology and Behavior)

Yohei Yokobayashi, Ph.D., Associate Professor (Biomedical Engineering)

Emeriti Faculty

Maury L. Hull, Ph.D., Professor Emeritus (Mechanical and Aerospace Engineering, Biomedical Engineering)

Graduate Study. The Graduate Group in Biomedical Engineering offers programs of study and research leading to the M.S. and Ph.D. degrees. The programs of study prepare students for professional work in the effective integration of engineering with medical and biological sciences. Research strengths lie in the areas of imaging, tissue engineering and regenerative medicine, sensor and MEMs systems, cellular and molecular mechanics, computational modeling, targeted therapeutics, orthopedic biomechanics, biofluids and transport, and human movement. This broad interdisciplinary program is best suited for students who are capable of and comfortable with considerable independence. Each student, together with an advisor, defines a specific course of study suited to individual needs.

Preparation. The Group requires a strong competence in mathematics and engineering as necessary for successful completion of study. Prior course work in these areas is emphasized in the evaluation of applications. Some undergraduate training can be acquired after admission to the Group, but it may require an additional year of study.

Courses. See Engineering: Biomedical, on page 250.

Biophysics
(A Graduate Group)

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Faculty

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