

# BIOMEDICAL ENGINEERING

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See also Biomedical Engineering Faculty Directory (<http://directory.engr.wisc.edu/bme/>).

Biomedical engineering (BME) is the application of engineering tools for solving problems in biology and medicine. It is an engineering discipline that is practiced by professionals trained primarily as engineers, but with a specialized focus on the medical and biological applications of classical engineering principles. BMEs apply their multidisciplinary expertise to problems such as designing new medical instruments and devices, understanding and repairing the human body, and applying resourceful and cross-disciplinary approaches to age-old problems in the fields of medicine, biology, and beyond. A biomedical engineer can expect to work in a wide variety of multidisciplinary teams with professionals such as physicians, biologists, researchers, nurses, therapists, mathematicians, administrators, and many others while working in industry, as entrepreneurs, and in the medical profession and academia.

## DEGREES/MAJORS/CERTIFICATES

- Biology in Engineering for Engineering Majors, Certificate (<http://guide.wisc.edu/undergraduate/engineering/biomedical-engineering/biology-engineering-engineering-majors-certificate/>)
- Biomedical Engineering, B.S. (<http://guide.wisc.edu/undergraduate/engineering/biomedical-engineering/biomedical-engineering-bs/>)

## PEOPLE

### FACULTY

Paul Campagnola (Chair)  
Randolph Ashton  
David Beebe  
Walter Block  
Christopher Brace  
Kevin Eliceiri  
Shaoqin 'Sarah' Gong  
Aviad Hai  
Melissa Kinney  
Pamela Kreeger  
Wan-ju Li  
Kip Ludwig  
Kristyn Masters  
Megan McClean  
Beth Meyerand  
William Murphy  
Krishanu Saha  
Melissa Skala  
Darryl Thelen  
Justin Williams  
Colleen Witzenburg  
Filiz Yesilkoy

### INSTRUCTIONAL STAFF AND TEACHING FACULTY

Amit Nimunkar  
John Puccinelli  
Tracy Jane Puccinelli