# Biomedical Engineering

## Key Skills
- Attention to Detail
- Communication
- Data Analysis
- Empathy
- Mathematics
- Research
- Teamworking
- Technical
- Writing (Reports/Technical)

## Concentrations/Specializations
- Bioinformatics
- Bioinstrumentation
- Biomaterials
- Biomechanics
- Cellular, Tissue, & Genetic Engineering
- Clinical Engineering
- Medical Imaging
- Neural Engineering
- Orthopedic
- Pre-Medicine
- Rehabilitation Engineering
- Systems Physiology
- Telehealth/Telemedicine
- Biomedical Engineering (BS, MS, BS/MS, PhD)
  (Concentrations in Bioinformatics, Biomechanics, Imaging, Instrumentation, Pre-Med, Telemedicine)
- Computer/Electrical Engineering (BS)
- Mechanical Engineering (BS)
- Regulatory Biomedical Engineering (MEng)

## Sample Degrees
- Bioinformatics
- Bioinstrumentation
- Biomaterials
- Biomechanics
- Cellular, Tissue, & Genetic Engineering
- Clinical Engineering
- Medical Imaging
- Neural Engineering
- Orthopedic
- Bioinformaticist
- Biomaterials Engineer
- Biomechanical Engineer
- Biomedical Manager
- Biomedical Technician
- Biophysicist
- Clinical Engineer
- Genetic Engineer
- Medical Equipment Repairer
- Nanosystems Engineer
- Quality Engineer
- Rehabilitation Engineer
- Researcher/Research Assistant
- Software Engineer
- Systems Physiologist
- Consulting Firm
- Consumer Products Company
- Engineering Company
- Federal Government
- Hospital
- Medical Clinic
- Medical Equipment Supplier

## Sample Occupations
- Consulting Firm
- Consumer Products Company
- Engineering Company
- Federal Government
- Hospital
- Medical Clinic
- Medical Equipment Supplier
- Biophysicist
- Clinical Engineer
- Genetic Engineer
- Medical Equipment Repairer
- Nanosystems Engineer
- Quality Engineer
- Rehabilitation Engineer
- Researcher/Research Assistant
- Software Engineer
- Systems Physiologist

## Possible Work Settings
- Consulting Firm
- Consumer Products Company
- Engineering Company
- Federal Government
- Hospital
- Medical Clinic
- Medical Equipment Supplier
- Nonprofit Organization
- Pharmaceutical/Medical Manufacturer
- Professional School
- R&D Laboratory
- Research Organization
- University/College

## Sample Student ORGs
- Biomedical Engineering Society
- Engineering World Health GW
- Engineers Without Borders
- National Society of Black Engineers
- Society of Women Engineers
- Tau Beta Pi (Honors Society)
- The Engineers’ Council

## Sample Employers
- Johnson & Johnson
- Kimberly-Clark Corporation
- Medispec
- Medtronic, Inc.
- Momenta Pharmaceuticals, Inc.
- Pfizer, Inc.
- Quidel Corporation
- Raytheon
- Sanofi Genzyme
- Siemens Healthineers
- St. Jude Medical, Inc.
- Stryker Corporation
- The Wallace H. Coulter Foundation
- Thermo Fisher Scientific
- US Department of the Air Force
- US Veterans Administration
- Virtua Medical Group
- Zimmer Biomet

## Professional ORGs
- American Institute for Medical & Biological Engineering (AIMBE)
- Biomedical Engineering Society (BMES)
- IEEE Engineering in Medicine & Biology Society (EMBS)
- Institute of Physics & Engineering in Medicine (IPEM)

If you’re interested in this field of study, your industry coach is likely to be the STEM industry coach. Set up an appointment on Handshake.