BIOMEDICAL ENGINEERING

KEY SKILLS

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

- Bioinformatics
- Bioinstrumentation
- Biomaterials
- Biomechanics
- Cellular, Tissue, & Genetic Engineering
- Clinial Engineering
- Medical Imaging
- Neural Engineering
- Orthopedic

• Pre-Medicine

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CONCENTRATIONS/SPECIALIZATIONS

- Rehabilitation
- Engineering
- Systems Physiology Telehealth/

Consulting Firm

Medical Clinic

SAMPLE EMPLOYERS

Company

Hospital

Supplier

Consumer Products

Engineering Company

Federal Government

Medical Equipment

Telemedicine

- **SAMPLE DEGREES**
- 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 OCCUPATIONS

- Biochemist/Biophysicist
 Medical Equipment
- Bioinformaticist
- Biomaterials Engineer
- Biomechanical Engineer Quality Engineer
- Biomedical Manager
- **Biomedical Technician**
- Biophysicist
- Clinical Engineer
- Genetic Engineer

- Repairer
- Nanosystems Engineer
- Rehabilitation Engineer
- Researcher/Research Assistant
- Software Engineer
- Systems Physiologist

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



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

Center for

Career Services

- 3M Company
- Abbott Laboratories
- AstraZeneca
- Baxter International Inc.
- Bayer AG
- **Boston Scientific Corporation** •
- Brainlab •
- Bristol-Myers Squibb
- Cardinal Health, Inc.
- Celera Corporation
- Columbus Tech & Services
- Cook Medical
- Cynosure
- Dana-Farber Cancer Institute
- Dexcom, Inc.
- General Electric Company
- Howard Hughes Medical Institute
- Johns Hopkins Medicine

- Nonprofit Organization
- Pharmaceutical/Medical Manufacturer
- Professional School
- R&D Laboratory
- Research Organization
- University/College

- Johnson & Johnson
- Kimberly-Clark Corporation
- Medispec

POSSIBLE WORK SETTINGS

- 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

Virtua Medical Group

Zimmer Biomet

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.

• US Department of the Air Force US Veterans Administration