

BIOMEDICAL ENGINEERING- Career Resource Guide

Career Options

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| Biomedical Engineer | Analyze and design solutions to problems in biology and medicine, with the goal of improving the quality and effectiveness of patient care. |
| Biomedical Equipment Technician | Maintain, test and repair medical equipment. |
| Product Development Engineer | Translate complex technical issues into uncomplicated consumer products and work on product development from concept to final result in a multidisciplinary team. |
| Quality Assurance Engineer | Perform steps to check a project at various stages of development in order to attest to the quality of what is being produced. |
| Research & Development Engineer | Provide advancements in products that range from simple updates of features to dramatic discoveries of new cures for diseases. |

Business & Industry Job Titles

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| Advance Process Engineer | Control Systems Designer |
| Application Engineer | Cost Analyst/Engineer |
| Assembly Manufacturing Engineer | Design Engineer |
| Biomedical Engineer | Development/Test Engineer |
| Biomedical Equipment Technician | Facilities Engineer |
| Biomedical Image Analysis Scientist | Lean Manufacturing Coordinator |
| Buyer | Master Black Belt |
| CAD/CAM Applications Engineer | Product Development Engineer |
| Calibrations Engineer | Quality Assurance Engineer |
| Consultant | Research and Development Specialist |

Periodicals/Books of Interest

RMU Library

Computers and Industrial Engineering: An International Journal
IEE Solutions: Institute of Industrial Engineers Monthly
Manufacturing Computer Solutions: The Management Magazine
of Integrated Manufacturing
NAEDA Equipment Dealer
Production
Society of Manufacturing Engineers (SME)

Career Center Library

Careers in Focus: Engineering
Great Jobs for Engineering Majors
Great Opportunities in Biotechnology and Drug Development
Is There an Engineer Inside You?
Opportunities in Engineering Careers
The Wetfeet Insider Guide to Careers in Manufacturing

Associations & Societies

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| American Council of Engineering Companies * | www.acec.org |
| American Medical Informatics Association * MP | www.amia.org |
| American Society of Mechanical Engineers * | www.asme.org |
| Association for Manufacturing Excellence * | www.ame.org |
| Association for Manufacturing Technology * | www.AMTonline.org/mtcareers.org |
| Biomedical Engineering Society * | www.bmes.org |
| IEEE Engineering in Medicine and Biology Society * | www.embs.org |
| International Society for Computational Biology * | www.iscb.org |
| National Society of Black Engineers (NSBE) * | www.nsbe.org |
| National Society of Professional Engineers (NSPE) * MP | www.nspe.org |
| Rehabilitation Engineering and Assistive Technology Society * | www.resna.org |
| Society of Hispanic Professional Engineers ** | www.shpe.org |
| Society of Manufacturing Engineers (SME) ** | www.sme.org |
| Society of Women Engineers ** | www.swe.org |

* Contains employment listings

** Contains employment listings for members

MP- Mentorship Program

Career & Employment Websites

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| About Job Searching: Tech Careers | www.jobsearchtech.about.com |
| Biomedical Engineer | www.biomedicalengineer.com |
| CareerBuilder | www.careerbuilder.com |
| Dice.com | www.dice.com |
| Engineering Central | www.engcen.com |
| EngineerJobs.com | www.engineerjobs.com |
| Graduating Engineer and Computer Careers Online | www.graduatingengineer.com |
| Jobs in Manufacturing.com | www.jobsinmfg.com |
| Nation Job | www.nationjob.com/engineering |
| New Scientist Jobs | www.jobs.newscientist.com/jobs/biomedicalengineer |
| Occupational Outlook Handbook- Search Biomedical Engineers | www.bls.gov/ooh/architecture-and-engineering |
| Pittsburgh Career Connector (Pittsburgh Technology Council) | www.pghcareerconnector.com |

Note: A helpful list of general job search websites is available on the Internet Tip Sheet at www.rmu.edu/careercenter.

Selected RMU Academic, Professional & Leadership Organizations

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| Association of Computing Machinery (Bioinformatics) | Society of Automotive Engineers |
| Biology Club | Society of Manufacturing Engineers |
| Biomedical Engineering Society | Society of Women Engineers |
| Engineers for a Sustainable World | Student Government Association |
| National Society of Black Engineers | Student Program Board |
| Office of Student Civic Engagement | |

Salary Information

| 2015 RMU Salary Survey | Mean | Range |
|----------------------------------|----------|---------------------|
| Engineering (all concentrations) | \$49,813 | \$20,000 - \$67,000 |

Bachelor-Level Internship Organizations

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| Calgon Carbon Corporation | RMU Learning Factory |
| Carnegie Mellon University | University of Akron |
| Global Links | University of Alabama at Birmingham |
| Heritage Valley Health System | University of Pittsburgh |
| L & S Machine Company | W.K. Merriman, Inc. |
| National Space Biomedical Research Center | Westinghouse Electric Corporation |

Sample of Pittsburgh-Area Life Sciences/Medical Device Organizations

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| Aesynt Incorporated | Instrumentation Industries, Inc. |
| ALung Technologies, Inc. | Kadmon Corporation, LLC |
| Bayer Healthcare | Net Health |
| BioTronics Inc. | Novum Pharmaceutical Research Services |
| CECity.com, Inc. | Oberg Industries |
| ChemImage Corp. | PerkinElmer Inc. |
| Douglas Laboratories | Philips Respironics |
| Dynavox Inc. | RJ Lee Group, Inc. |
| E.A. Fischione Instruments, Inc. | The Tomayko Group, LLC |
| ERT | Thermo Fisher Scientific Inc. |
| Haemonetics Corporation | Waters Corporation |
| Helomics | Zoll Medical Corporation |