

## ENGINEERING: Industrial/Manufacturing/Mechanical- Career Resource Guide

### Career Options

<b>Industrial Engineer</b>	Design, develop, test and evaluate integrated systems for managing industrial production processes, including human work factors, quality control, inventory control, logistics and material flow, cost analysis and production coordination.
<b>Manufacturing Engineer</b>	Design and improve manufacturing systems. Work with commercial and industrial designers to increase production, decrease costs and refine a product's design.
<b>Mechanical Engineer</b>	Provide efficient solutions to the development of processes and products, ranging from small component designs to extremely large plant, machinery or vehicles. Work on all stages of a product, from research and development to design and manufacturing, through installation and final commissioning.

### Business & Industry Job Titles

<b>Industrial Engineering</b>	<b>Manufacturing Engineering</b>	<b>Mechanical Engineering</b>
Distribution Network Specialist	Assembly Manufacturing Engineer	Analyzer Reliability Engineer
Inventory & Supply Chain Manager	Availability Engineer	Application Engineer
Logistics Engineer/Analyst	Calibrations Engineer	CAD/CAM Applications Engineer
Materials & Logistics Supervisor	Continuous Improvement Engineer	Calibrations Engineer
Product Planning Engineer	Control Systems Designer	Design Engineer
Project Engineer	Cost Analyst/Engineer	Development/Test Engineer
Supplier Quality Engineer	Facilities Engineer	Field Engineer
Supply Chain Analyst/Consultant	Lean Manufacturing Coordinator	Quality Assurance Engineer
Transportation Engineer	Product Engineer	Research Engineer

### Associations & Societies

American Council of Engineering Companies *	<a href="http://www.acec.org">www.acec.org</a>
American Society of Mechanical Engineers * LI	<a href="http://www.asme.org">www.asme.org</a>
American Society of Transportation and Logistics *	<a href="http://www.astl.org">www.astl.org</a>
APICS – The Association of Operations Management ** LI	<a href="http://www.apics.org">www.apics.org</a>
National Association of Manufacturers LI	<a href="http://www.nam.org">www.nam.org</a>
National Society of Black Engineers (NSBE) * LI	<a href="http://www.nsbe.org">www.nsbe.org</a>
National Society of Professional Engineers (NSPE) * LI	<a href="http://www.nspe.org">www.nspe.org</a>
Society of Hispanic Professional Engineers ** LI	<a href="http://www.shpe.org">www.shpe.org</a>
Society of Manufacturing Engineers (SME) * LI	<a href="http://www.sme.org">www.sme.org</a>
Society of Women Engineers ** LI	<a href="http://www.swe.org">www.swe.org</a>

\* Contains employment listings, \*\* Contains employment listings for members, LI LinkedIn Group

### Career & Employment Websites

CareerBuilder	<a href="http://www.careerbuilder.com">www.careerbuilder.com</a>
Dice.com	<a href="http://www.dice.com">www.dice.com</a>
Engineering Central	<a href="http://www.engcen.com">www.engcen.com</a>
EngineeringJobs	<a href="http://www.engineeringjobs.com">www.engineeringjobs.com</a>
EngineerJobs.com	<a href="http://www.engineerjobs.com">www.engineerjobs.com</a>
Graduating Engineer and Computer Careers Online	<a href="http://www.graduatingengineer.com">www.graduatingengineer.com</a>
Jobs in Manufacturing	<a href="http://www.jobsinmfg.com">www.jobsinmfg.com</a>
Logistics World	<a href="http://www.logisticsworld.com">www.logisticsworld.com</a>
Nation Job	<a href="http://www.nationjob.com/engineering">www.nationjob.com/engineering</a>
Occupational Outlook Handbook: Architecture and Engineering Occupations	<a href="http://www.bls.gov/ooh/architecture-and-engineering/home.htm">www.bls.gov/ooh/architecture-and-engineering/home.htm</a>
Pittsburgh Career Connector (Pittsburgh Technology Council)	<a href="http://www.pghcareerconnector.com">www.pghcareerconnector.com</a>

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

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## Periodicals/Books of Interest

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### Career Center Library

Careers in Focus: Engineering  
Great Jobs for Engineering Majors  
Is there an Engineer Inside You?  
Opportunities in Engineering Careers  
The Wetfeet Insider Guide to Careers in Manufacturing

### RMU Library

Computers and Industrial Engineering: An International Journal  
Logistics Careers with a Challenge  
Logistics Engineering and Management  
Manufacturing Computer Solutions: The Management Magazine of Integrated Manufacturing

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## Selected RMU Academic, Professional & Leadership Organizations

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APICS (Association of Operations Management)  
Association of Computing Machinery  
Engineers for a Sustainable World  
National Society of Black Engineers  
Office of Student Civic Engagement

Society of Automotive Engineers  
Society of Manufacturing Engineers  
Society of Women Engineers  
Student Government Association  
Student Program Board

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## Salary Information

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### RMU Salary Survey

	Mean	Range
Engineering- all concentrations (2015)	\$49,813	\$20,000 - \$67,000
Engineering- all concentrations (2014)	\$55,031	\$40,000 - \$69,000

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## Bachelor-Level Internship Organizations

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A.K. Steel  
Abu Dhabi National Oil Company  
Adecco (Google)  
Allegheny General Hospital  
Arabian Metal Industries Company Limited  
ARAMCO Saudi Arabia  
Atrium Innovations  
Bayer  
Calgon Carbon Corporation  
Chromolox, Inc.  
Crown Castle International Corporation  
DHI  
Douglas Labs  
Emerson Process Management  
EQT Corporation

FESCO Ltd.  
First Energy Corporation  
Geo-Solutions Inc.  
Gray Matters System  
IDL Worldwide  
Iron Bridge Integration, Inc.  
MSA Safety  
Orbital Engineering  
Rolls-Royce  
United States Steel Corporation  
University of Pittsburgh  
Vere Inc.  
W.K. Merriman, Inc.  
Webasto Edscha Cabrio

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## Bachelor-Level Hiring Organizations

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**Air National Guard** – Telecommunication Specialist  
**Alcoa** – Mechanical Engineer  
**Bechtel Marine Propulsion Corporation** – Nuclear Operations Program  
**Clear Automation, LLC** – Mechanical Robotic Engineer  
**Deloitte** – Engineering and Construction Consultant  
**FedEx Ground** – CPC Engineer  
**Independence Excavating Inc.** – Field Engineer  
**Kopp Glass, Inc.** – Process/Optical Engineer  
**Matthews International** – Continuous Improvement Engineer  
**MECCO** – Laser Applications Engineer

**MESA, Inc.** – Sales Engineer  
**Mitsubishi Electric Power Products Inc.** – Quality Assurance Engineer  
**Rolls-Royce** – Engineer  
**Sub-Technical Inc.** – Engineer  
**Tec Inc.** – Mechanical Engineer  
**United States Steel Corporation** – Management Associate  
**Wabtec Corporation** – Industrial Engineer  
**Westinghouse Electric Corporation** – Commercial Integration Engineer