

ENGINEERING MANAGEMENT (M.S.)- Career Resource Guide

Career Options

A majority of engineers and technical professionals spend a significant portion of their careers managing technical projects and people. Engineers who complete a graduate degree can expect excellent career enhancement opportunities as a result of the managerial and technical skills they obtain.

The M.S. in Engineering Management degree provides a distinct advantage. Many industries and government organizations seek individuals with advanced technical education for positions of increased responsibility such as project leaders, chief engineers, engineering supervisors, directors of engineering, project managers, production managers and systems managers.

Business & Industry Job Titles

Advance Process Engineer	Integrated Logistics Support Manager	Quality Engineer
Analyzer Reliability Engineer	Inventory & Supply Chain Manager/Director	Reliability Engineer
Application Programmer	Liaison Engineer	Reliability/Maintainability Engineer
Applications Engineer	Logistics Analyst	Research and Development
Assembly Manufacturing Engineer	Logistics Engineer	Sales
Business/Manufacturing Engineer	Logistics Specialist	Software Design & Development
Computer Engineer	Material Planning & Logistics Supervisor	Software Engineer
Computer Programmer	Materials & Logistics Manager	Software Programmer
Computer Security Specialist	Network Engineer	Supplier Quality Engineer
Consultant	Operations System Manager	Supply Chain Analyst/Consultant
Control Systems Designer	Process Engineer	Supply Chain Engineer/Manager
Cost Analyst/Engineer	Procurement & Supplier Manager	Systems Analyst
Design Engineer	Product Development Engineer	Systems Designer
Development/Test Engineer	Product Planning Engineer	Systems Programmer
Distribution Manager/Director	Production & Operations Engineer	Technical Writer
Distribution Network Specialist	Project Engineer	Telecommunication Analyst
Forecast Analyst	Project Logistics Manager	Transportation Engineer
Industrial Engineer	Purchasing Engineer/Manager	Travel & Transportation Analyst

Associations/Societies

American Council of Engineering Companies *	www.acec.org
American Council of Engineering Companies of Pennsylvania *	www.acecpa.org
American Society of Mechanical Engineers * LI	www.asme.org
American Society of Transportation and Logistics * LI	www.astl.org
APICS – The Association for Operations Management ** LI	www.apics.org
Association for Manufacturing Excellence LI	www.ame.org
IEEE – Advanced Technology for Humanity *	www.ieee.org
Institute for Operations Research & the Management Sciences **	www.informs.org
International Society of Logistics ** LI	www.sole.org
National Association of Manufacturers LI	www.nam.org
National Society of Black Engineers (NSBE) ** LI	www.nsbe.org
National Society of Professional Engineers (NSPE) * MP LI	www.nspe.org
Society of Automotive Engineers * MP LI	www.sae.org
Society of Hispanic Professional Engineers ** LI	www.shpe.org
Society of Manufacturing Engineers (SME) ** LI	www.sme.org
Society of Women Engineers ** LI	www.swe.org

* Contains employment listings

** Contains employment listings for members

MP – Mentoring Program

LI – LinkedIn Group

Periodicals of Interest

(Several of these resources may be found at the RMU Library.)

Computers and Industrial Engineering: An International Journal
Dictionary of Logistics
Engineering Guide to Business
IEE Solutions: Institute of Industrial Engineers Monthly
Information Systems in Logistics and Transportation
Logistics Careers with a Challenge
Logistics Engineering and Management

Manufacturing Computer Solutions: The Management Magazine of
Integrated Manufacturing
Society of Manufacturing Engineers (SME): The Logistics
Handbook
Software Engineering
Software Engineering Handbook

Career & Employment Websites

About Jobs Searching: Technical	www.jobsearchtech.about.com
Computerjobs.com	www.computerjobs.com
Computerwork.com	www.computerwork.com
Dice.com	www.dice.com
Diversity – Careers in Engineering & Information Technology	www.diversitycareers.com
Engineering and Manufacturing Jobs (NationJob Network)	www.nationjob.com/engineering
Engineering Central	www.engcen.com
Engineering Jobs & Resources at CareerBuilder.com	www.engineering.careerbuilder.com
EngineerJobs.com	www.engineerjobs.com
Graduating Engineer and Computer Careers	www.graduatingengineer.com
IT Jobs & Resources at CareerBuilder.com	www.informationtechnology.careerbuilder.com
JobsInLogistics.com	www.jobsinlogistics.com
Logistics World	www.logisticsworld.com
Mashable Job Board	www.mashable.com/tech - findjobs.mashable.com
Occupational Outlook Handbook – Search Architecture and Engineering Occupations	www.bls.gov/ooh
Pittsburgh Career Connector (Pittsburgh Technology Council)	www.pghcareerconnector.com
Riley Guide – Engineering and Mathematics	www.rileyguide.com/engin.html

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

Salary Information

RMU Salary Survey: M.S. in Engineering Management

2015	Range: \$66,000 - \$105,120	Mean: \$54,272
2014	Range: \$45,000 - \$ 80,000	Mean: \$64,833
2013	Range: \$45,000 - \$107,000	Mean: \$76,611

Master-Level Hiring Organizations

Bayer Healthcare - NPD SD LGE Engineer	Power Piping Co. - Project Engineer
BLAIR COMPANIES - Project Engineer	Rolls-Royce - Mechanical Engineer
Curtiss-Wright Corporation - Manufacturing Engineer	Rolls-Royce - Nuclear Engineer Services
Eaton Corporation - Senior Engineer	SCT - Engineering Support Specialist
Emerson Process Management - Engineer/New Generation Power Systems	TD WILLIAMSON - Service Center Supervisor
Heper Group of Companies - Sales Engineer	Tetra Tech NUS, Inc. - Senior Project Manager
Matthews International - Continuous Improvement Engineer	Thermal Product Solutions - Mechanical Engineer
MECCO - Laser Application Engineer	Tiraz Arabia - Business Development Manager
Merrick & Company - Commissioning Engineer	Tyche Enterprise - CEO