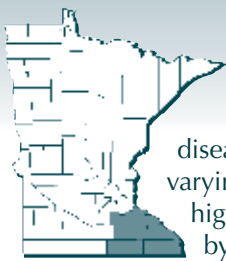


# ◆ SCIENCE ◆ TECHNOLOGY ◆ ◆ ENGINEERING ◆ MATHEMATICS ◆



## OCCUPATIONS IN SOUTHEAST MINNESOTA

November 2009



People with jobs in Science, Technology, Engineering and Mathematics (STEM) are innovators and problem solvers. They are the engineers who create new products that have a profound influence on daily life, and the scientists who identify ways to treat disease. But not all STEM jobs require advanced degrees. There are many types of STEM careers with varying levels of educational requirements, and the interests and skills required range from creative to high-tech. This handout displays some of the largest STEM-related occupations in Southeast Minnesota by STEM discipline. Together there are more than 16,000 people in these jobs in Southeast Minnesota.

Occupations by STEM Discipline	Median Hourly Wage, Southeast MN	Minimum Educational Requirement	Projected Rate of Future New Job Growth, Southeast MN	Total Projected Job Openings 2006-2016
<b>Chemistry</b>				
Chemical Equipment Operators and Tenders	\$15.00	Moderate-term on-the-job training	Average	17
<b>Chemistry, Computer Science, Engineering, Geosciences, Life Sciences, Mathematics, Physics/Astronomy</b>				
Natural Sciences Managers	\$50.25	Work experience plus bachelor's or higher degree	Above average	16
<b>Chemistry, Computer Science, Engineering, Geosciences, Life Sciences, Physics/Astronomy</b>				
Engineering Managers	\$49.00	Work experience plus bachelor's or higher degree	Below average	55
<b>Chemistry, Geosciences</b>				
Chemistry Teachers, Postsecondary	\$61,415/year	Doctoral degree	Average	15
<b>Chemistry, Life Sciences</b>				
Chemical Technicians	\$18.75	Associate degree	Average	19
<b>Chemistry, Physics/Astronomy</b>				
Chemists	\$24.75	Bachelor's degree	Above average	12
<b>Computer Science</b>				
Accountants and Auditors	\$25.25	Bachelor's degree	Average	438
Computer and Information Systems Managers	\$57.75	Work experience plus bachelor's or higher degree	Below average	99
Computer Programmers	\$38.75	Bachelor's degree	Below average	135
Computer Science Teachers, Postsecondary	\$79,660/year	Doctoral degree	Average	13
Computer Specialists, All Other	\$30.00	Postsecondary vocational training	Above average	207
Computer Support Specialists	\$20.25	Associate degree	Above average	304
Computer Systems Analysts	\$36.00	Bachelor's degree	Average	175
Database Administrators	\$32.75	Bachelor's degree	Average	30
Graphic Designers	\$18.00	Bachelor's degree	Average	119
Network and Computer Systems Administrators	\$26.75	Bachelor's degree	Average	146
Network Systems and Data Communications Analysts	\$43.75	Bachelor's degree	Well above average	183
Numerical Tool and Process Control Programmers	\$23.00	Long-term on-the-job training	Below average	5

<b>Computer Science, Engineering</b>				
Computer Hardware Engineers	\$47.75	Bachelor's degree	Below average	275
Computer Software Engineers, Applications	\$38.75	Bachelor's degree	Well above average	486
Computer Software Engineers, Systems Software	\$46.75	Bachelor's degree	Below average	242
Electrical and Electronic Engineering Technicians	\$22.25	Associate degree	Below average	72
<b>Computer Science, Mathematics</b>				
Business Teachers, Postsecondary	\$64,370/year	Doctoral degree	Average	34
Operations Research Analysts	\$39.75	Master's degree	Above average	22
<b>Engineering</b>				
Architects, Except Landscape and Naval	\$32.50	Bachelor's degree	Above average	30
Architectural and Civil Drafters	\$20.50	Postsecondary vocational training	Average	37
Automotive Service Technicians and Mechanics	\$17.00	Postsecondary vocational training	Average	357
Civil Engineering Technicians	\$25.75	Associate degree	Average	60
Civil Engineers	\$34.25	Bachelor's degree	Average	62
Construction Managers	\$33.75	Bachelor's degree	Average	112
Cost Estimators	\$25.25	Bachelor's degree	Above average	134
Electrical Engineers	\$44.50	Bachelor's degree	Average	84
Electromechanical Equipment Assemblers	\$13.75	Short-term on-the-job training	Above average	50
Electronics Engineers, Except Computer	\$34.25	Bachelor's degree	Average	16
Environmental Engineers	\$30.25	Bachelor's degree	Above average	6
Health and Safety Engineers	\$42.25	Bachelor's degree	Average	11
Industrial Engineering Technicians	\$19.00	Associate degree	Above average	95
Industrial Engineers	\$34.00	Bachelor's degree	Average	141
Materials Engineers	\$37.50	Bachelor's degree	Average	3
Mechanical Engineering Technicians	\$23.25	Associate degree	Below average	20
Mechanical Engineers	\$32.75	Bachelor's degree	Below average	96
<b>Engineering, Geosciences</b>				
Engineers, All Other	\$35.00	Bachelor's degree	Below average	15
<b>Engineering, Life Sciences</b>				
Foresters	\$27.00	Bachelor's degree	Average	12
<b>Environmental Science</b>				
Environmental Scientists and Specialists	\$29.00	Bachelor's degree	Average	18
<b>Life Sciences</b>				
Agricultural and Food Science Technicians	\$18.00	Associate degree	Below average	20
Biological Science Teachers, Postsecondary	\$63,100/year	Doctoral degree	Average	31
Biological Scientists, All Other	\$31.75	Bachelor's degree	Well above average	87
Biological Technicians	\$28.25	Associate degree	Well above average	286
Compliance Officers	\$26.50	Long-term on-the-job training	Below average	12
Conservation Scientists	\$29.25	Bachelor's degree	Below average	12
Dietetic Technicians	\$18.75	Moderate-term on-the-job training	Above average	11
Dietitians and Nutritionists	\$26.75	Bachelor's degree	Above average	51
First-Line Supervisors/Managers of Farming, Fishing and Forestry Workers	\$23.75	Moderate-term on-the-job training	Below average	25
Food Batchmakers	\$19.25	Short-term on-the-job training	Average	188
Forest and Conservation Technicians	\$18.50	Associate degree	Below average	12
Life Scientists, All Other	\$23.00	Bachelor's degree	Well above average	251
<b>Life Sciences, Physics/Astronomy</b>				
Health Specialties Teachers, Postsecondary	\$75,890/year	Doctoral degree	Average	35
<b>Mathematics</b>				
Mathematical Science Teachers, Postsecondary	\$63,110/year	Doctoral degree	Average	32
<b>Mathematics, Physics/Astronomy</b>				
Physics Teachers, Postsecondary	\$62,745/year	Doctoral degree	Average	9
<b>Physics/Astronomy</b>				
Nuclear Medicine Technologists	\$36.50	Associate degree	Well above average	25

**For More Information Contact:**  
**Jennifer Ridgeway, MN Department of Employment and Economic Development**  
**Rochester WorkForce Center, 300 11th Ave. NW, Rochester, MN 55901**  
**507-285-7327 or [jennifer.ridgeway@state.mn.us](mailto:jennifer.ridgeway@state.mn.us)**  
**Labor Market Information Help Desk: 1-888-234-1114**