Exploring Math & Science Careers in Wyoming

Introduction

As a result of the economic and technological changes associated with moving into the 21st Century, occupations requiring math and science skills have shown substantial growth over the past decade. Not only are these occupations appealing for their typically high wages but also for their ability to utilize state-of-the-art technology and cutting-edge innovations.

Tomorrow's workers need to take advantage of training and educational opportunities that will lead to a career in math and science occupations. Certification by software and hardware providers either alone or in combination with some postsecondary education often meets the training and educational requirements for some occupations. However, most math and science occupations require at least a bachelor's degree or higher.

Women, especially, need to consider careers in math and science occupations as their employment in these areas has lagged behind that of men. In addition, women should strive to move beyond supporting roles, such as technologists and technicians, by choosing career paths that end in doctoral or first professional degrees.

Highest Paying Math & Science Occupations

Wyoming Statewide Math and Science Occupations by Median Annual Wage

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Standard	l Occupational Classification	Annual
Code	Title	W age
29-1063	Internists, general	\$132,080
29-1061	Anesthesiologists	\$130,354
29-1021	Dentists, general	\$128,045
29-1062	Family and general practitioners	\$119,621
29-1081	Podiatrists	\$105,955
29-1065	Pediatricians, general	\$97,240
25-1063	Economics teachers, postsecondary	\$87,960
29-1041	Optometrists	\$87,838
25-1032	Engineering teachers, postsecondary	\$83,080
17-2041	Chemical engineers	\$77,022
29-1051	Pharmacists	\$76,690
17-2112	Industrial engineers	\$70,949
29-1011	Chiropractors	\$70,658
25-1052	Chemistry teachers, postsecondary	\$68,990
25-1041	Agricultural sciences teachers, postsecondary	\$68,400
25-1042	Biological science teachers, postsecondary	\$67,960
17-2071	Electrical engineers	\$66,810
41-3031	Securities & commodities sales agents	\$65,478
19-2042	Geoscientists, except hydrologists and geographers	\$65,062
25-1065	Political science teachers, postsecondary	\$64,870

For More Info

For more information about occupations in math and science, visit the following websites:

Research & Planning http://doe.state.wy.us/ANSWERS/America's Career Info Net http://www.acinet.org/acinet/IPEDS College Opportunities On-line

http://nces.ed.gov/ipeds/cool/

Wyoming Department of Employment Research & Planning

P.O. Box 2760 Casper, WY 82602 (307) 473-3805 http://doe.state.wy.us/LMI/



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Educational Requirements of Math & Science Occupations

On-the-Job Training

Payroll & timekeeping clerks (short-term)

Tellers (short-term)

Bookkeeping & accounting clerks (moderate-term)

Pharmacy technicians (moderate-term)

Tax preparers (moderate-term)

Cabinetmakers & carpenters (long-term)

Electricians (long-term) Fire fighters (long-term)

Agricultural inspectors (experience in related occ.)

Fire inspectors (experience in related occ.)

Vocational Training

Avionics technicians Commercial pilots

Drafters

EMTs & paramedics

Jewelers

Licensed practical nurses

Massage therapists

Real estate appraisers

Respiratory therapy technicians

Surgical technologists

Associate's Degree

Computer support specialists

Dental hygienists

Diagnostic medical sonographers

Engineering technicians

Life, physical, & social science techs

Medical & clinical lab technicians

Radiation therapists

Registered nurses

Respiratory therapists

Veterinary technicians

Bachelor's Degree

Master's Degree

Doctoral Degree

1st Pro. Degree

Accountants & auditors Airline pilots & copilots

Architects

Biological scientists

Chemists Economists Engineers Loan officers

Occupational therapists

Surveyors

Anthropologists Audiologists Geographers Hydrologists Physical therapists

Speech pathologists Statisticians

Market research analysts Psychologists

Urban & regional planners

Agricultural sciences teachers, postsecondary Biological science teachers, postsecondary Chemistry teachers, postsecondary Clinical, counseling, & school psychologists Computer science teachers, postsecondary

Economics teachers, postsecondary Engineering teachers, postsecondary Mathematical science teachers, postsecondary Nursing instructors & teachers, postsecondary Podiatrists

Sociology teachers, postsecondary

Anesthesiologists Chiropractors Dentists

Family practitioners

Internists Optometrists Pediatricians

Pharmacists Veterinarians

Growing Math & Science Occupations

Wyoming Statewide Math and Science Occupations With the Highest Projected Employment Growth

Standard Occupational Classification Code Title		Percent Change
15 1021	Compartor of transport of a single of the si	61.0
	Computer software engineers, applications	
	Network systems and data communications analysts	57.2
29-2056	Veterinary technologists and technicians	51.9
19-3092	Geographers	50.0
29-1071	Physician assistants	49.2
29-1051	Pharmacists	48.8
29-2021	Dental hygienists	48.1
29-1126	Respiratory therapists	46.7
17-2081	Environmental engineers	46.0
15-1032	Computer software engineers, systems software	45.8
29-2054	Respiratory therapy technicians	43.2
29-2052	Pharmacy technicians	42.6
29-1131	Veterinarians	41.6
29-1011	Chiropractors	40.0
29-1123	Physical therapists	39.8
13-2082	Tax preparers	39.7
15-1051	Computer systems analysts	38.5
13-2052	Personal financial advisors	38.3
19-2041	Environmental scientists and specialists	37.3
29-2034	Radiologic technologists and technicians	36.9

Women in Math & Science

- Women comprise 46.5% of the total U.S. labor force.
- Only 1 out of 10 employed engineers is a woman.
- Women represent just 20.3% of network and computer systems administrators and 26.7% of computer programmers.
- Among life sciences, women make up 45.2% of all employed biological scientists and 53.2% of all medical scientists.
- Nearly two-thirds of all employed psychologists are women.
- 98.8% of dental hygenists are women, but only 22.0% of dentists.

Source: Current Population Survey, 2004