

INDUSTRIES

2009 BEST PAYING INDUSTRIES

INDUSTRY	ANNUAL AVERAGE WAGE	ANNUAL JOB GROWTH	2018 PROJECTED EMPLOYMENT
Utilities	\$77K	-32	3,681
Mining	\$73K	162	9,249
Mgmt. of Companies & Enterprises	\$60K	12	5,703
Wholesale Trade	\$49K	309	21,836
Information	\$48K	57	7,730
Professional & Technical Services	\$47K	-479	15,324
Construction	\$45K	-24	24,048

2009 ANNUAL JOB GROWTH

INDUSTRY	ANNUAL AVERAGE WAGE	ANNUAL JOB GROWTH	2018 PROJECTED EMPLOYMENT
Government	\$37K	1,499	37,065
Healthcare & Social Assist.	\$38K	1,033	56,981
Accommodation & Food Services	\$12K	396	33,747
Wholesale Trade	\$49K	309	21,836
Ag., Forestry, Fishing & Hunting	\$35K	205	32,421
Transportation & Warehousing	\$40K	195	15,206
Mining	\$73K	162	9,249

2018 TOP EMPLOYING INDUSTRIES

INDUSTRY	ANNUAL AVERAGE WAGE	ANNUAL JOB GROWTH	2018 PROJECTED EMPLOYMENT
Healthcare & Social Assist.	\$38K	1,033	56,981
Retail Trade	\$23K	-363	45,379
Edu. Services	\$28K	73	39,060
Government	\$37K	1,499	37,065
Accommodation & Food Services	\$12K	396	33,747
Ag., Forestry, Fishing & Hunting	\$35K	205	32,421
Manufacturing	\$42K	-2,813	27,037

HELP GUIDE

TRAINING PROVIDER RESOURCES

ND Eligible Training Providers	jobsnd.com
ND Dept. of Public Instruction	dpi.state.nd.us
ND University System	ndus.edu
ND Internship Program	teamnd.org
ND Career & Technical Edu.	www.nd.gov/cte/

CAREER PLANNING ASSISTANCE

Job Service North Dakota	jobsnd.com
ND Career & Technical Edu.	www.nd.gov/cte/
O*NET OnLine	online.onetcenter.org
States' Career Clusters	careerclusters.org
Today's Military	todaysmilitary.com
U.S. Department of Education	ed.gov
America's Career InfoNet	acinet.org

SEARCH FOR OCCUPATIONS

Job Service North Dakota	jobsnd.com
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JSND CONTACT INFORMATION

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jobsnd.com

2010 EDITION

Job Service can help you with your skill and training needs. Find the Job Service office near you and get started today!

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Computations are based on the o*net 12 database.

SCIENCE, ENGINEERING & MATHEMATICS



OCCUPATIONAL PROFILES

SCIENCE, ENGINEERING & MATHEMATICS GROUP SUMMARY

Workers in this occupational group usually love to learn and they will need to continue to learn throughout their careers. There are jobs in many different industries and work environments. These occupations are for those that find critical thinking to be a stimulating part of a work environment. There are large rewards for those with talent and drive in these jobs.

FAST GROWING JOBS IN SCIENCE, ENGINEERING & MATHEMATICS

JOB TITLE	ENTRY TO TYPICAL ANNUAL SALARY	2008-2018 PERCENT GROWTH	2018 PROJECTED EMPLOYMENT
Petroleum Engineers	\$77-\$155K	86.67%	140
Medical Scientists	\$42-\$77K	47.62%	93
Civil Engineers	\$48-\$63K	28.57%	828
Surveying/Mapping Technicians	\$25-\$33K	22.55%	250
Industrial Engineers	\$52-\$66K	17.57%	475
Chemical Technicians	\$18-\$21K	15.51%	283
Engineering Managers	\$64-\$91K	13.02%	356

OCCUPATIONAL GROUP COMPARISON

OCCUPATIONAL GROUP	ENTRY TO TYPICAL ANNUAL SALARY	2008-2010 TOTAL OPENINGS
Architecture & Construction	\$28-\$38K	8,165
Arts, A/V Technology & Comm.	\$23-\$32K	2,485
Business Mgmt., Admin. & Finance	\$26-\$36K	24,579
Education & Training	\$29-\$40K	7,502
Healthcare & Human Services	\$29-\$35K	16,206
Information Technology	\$36-\$49K	2,258
Law, Public Safety, Corrections & Security	\$29-\$39K	2,746
Manufacturing	\$25-\$33K	7,724
Marketing, Sales, Service, Tourism	\$18-\$23K	39,893
Natural Resources & Mining	\$33-\$43K	9,333
Science, Engineering & Math	\$42-\$59K	2,066
Transportation, Distrib. & Logistics	\$25-\$35K	11,528

PETROLEUM ENGINEERS

2009 Entry to Typical Annual Salary	\$77-\$155K
Training Requirements	
2008-2018 Total Openings	81
Current Employment	75
2018 Projected Employment	140

DESCRIPTION:

Devise methods to improve oil and gas well production and determine the need for new or modified tool designs. Oversee drilling and offer technical advice to achieve economical and satisfactory progress.

ELECTRICAL ENGINEERS

2009 Entry to Typical Annual Salary	\$55-\$73K
Training Requirements	
2008-2018 Total Openings	86
Current Employment	239
2018 Projected Employment	270

DESCRIPTION:

Design, develop, test, or supervise the manufacturing and installation of electrical equipment, components, or systems for commercial, industrial, military, or scientific use.

CIVIL ENGINEERS

2009 Entry to Typical Annual Salary	\$48-\$63K
Training Requirements	
2008-2018 Total Openings	293
Current Employment	644
2018 Projected Employment	828

DESCRIPTION:

Perform engineering duties in planning, designing, and overseeing construction and maintenance of building structures, and facilities, such as roads, bridges, dams, irrigation projects, pipelines, power plants, water and sewage systems, and waste disposal units.

TRAINING REQUIREMENTS LEGEND

-  Professional Degree: 7-8 years of college
-  Doctorate Degree: 7-8 years of college
-  Master's Degree: 5-6 years of college
-  Bachelor's Degree: 4-5 years of college

MECHANICAL ENGINEERS

2009 Entry to Typical Annual Salary	\$48-\$66K
Training Requirements	
2008-2018 Total Openings	172
Current Employment	473
2018 Projected Employment	524

DESCRIPTION:

Perform engineering duties in planning and designing tools, engines, machines, and other mechanically functioning equipment. Oversee installation, operation, maintenance, and repair of such equipment as centralized heat, gas, water, and steam systems.

SURVEYING/MAPPING TECHNICIANS

2009 Entry to Typical Annual Salary	\$25-\$33K
Training Requirements	
2008-2018 Total Openings	82
Current Employment	204
2018 Projected Employment	250

DESCRIPTION:

Perform surveying and mapping duties, usually under the direction of a surveyor, cartographer, or photogrammetrist to obtain data used for construction, mapmaking, boundary location, mining, or other purposes. May calculate map-making information and create maps from source data.

CHEMICAL TECHNICIANS

2009 Entry to Typical Annual Salary	\$18-\$21K
Training Requirements	
2008-2018 Total Openings	87
Current Employment	245
2018 Projected Employment	283

DESCRIPTION:

Conduct chemical and physical laboratory tests to assist scientists in making qualitative and quantitative analyses of solids, liquids, and gaseous materials for purposes, such as research and development of new products or processes, quality control, and maintenance of environmental standards.

-  Associate's Degree: 2 years of college
-  Vocational Training: 2 weeks to 1 year of college
-  Job Training: 1-60 months of informal training
-  Work Experience: Experience in a related position