

# North Dakota *Careers by Education*

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**EDUCATION & CAREER PLANNING**

For more information about careers, visit  
[www.RUReady.ND.gov](http://www.RUReady.ND.gov) or see the  
Career Development Counselor or  
Career Advisor at your school.



**North Dakota Department of Career and Technical Education**

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	Typical Entry Level Education and Career	Total Openings	Avg 2015 Wage	Examples of Tasks Performed
<b>High School Diploma or Equivalent</b>	1 Farmers, Ranchers and Other Agricultural Managers	4,533	\$74,970	Coordinate the agriculture operations that produce crops, livestock and dairy products.
	2 Customer Service Representatives	2,843	\$33,480	Handle customer complaints and provide information about products and services.
	3 Office Clerks, General	2,401	\$26,940	Perform office tasks, including answering telephones, computer usage and maintaining records.
	4 Childcare Workers	2,184	\$20,550	Care for children's basic needs, such as bathing and feeding, when family members are unavailable.
	5 Teacher Assistants	1,770	\$30,220	Work under a teacher's supervision to provide instructional services to students.
	6 Supervisors of Retail Sales Workers	1,382	\$44,970	Coordinate activities for retail sales such as purchasing, budgeting and personnel work.
	7 Supervisors of Food Preparation and Serving Workers	1,347	\$33,520	Supervise and coordinate activities of workers engaged in preparing and serving food.
	8 Maintenance and Repair Workers, General	1,185	\$41,170	Perform maintenance to keep machines, mechanical equipment or a structure in repair.
	9 Secretaries and Administrative Assistants, Except Legal, Medical and Executive	1,075	\$36,400	Perform clerical functions such as maintaining paper and electronic files and scheduling of appointments.
	10 Supervisors of Office and Administrative Support Workers	984	\$55,420	Directly supervise the activities of clerical and administrative support workers.
	11 Hotel, Motel and Resort Desk Clerks	971	\$25,460	Register and assign rooms to guests, manage reservations and keep records of guest accounts.
	12 Service Unit Operators, Oil, Gas and Mining	952	\$54,790	Operate equipment to increase oil flow from producing wells or to remove obstructions from wells.
	13 Sales Representatives, Wholesale and Manufacturing, Except Technical and Scientific Products	853	\$68,670	Sell goods to businesses or groups of individuals. Work requires substantial knowledge of items sold.
	14 Team Assemblers	821	\$31,730	Work as part of a team having responsibility for assembling an entire product or component of a product.
	15 Insurance Sales Agents	813	\$63,900	Sell life, property, casualty, health, automotive, or other types of insurance.
<b>Postsecondary Non-Degree Award</b>	1 Heavy and Tractor-Trailer Truck Drivers	3,161	\$53,400	Transport goods from one location to another. Requires commercial drivers' license.
	2 Nursing Assistants	3,102	\$29,520	Provide basic care for patients in hospitals and residents of long-term care facilities such as nursing homes.
	3 Licensed Practical and Licensed Vocational Nurses	1,321	\$41,250	Care for ill, injured, or convalescing patients or persons in hospitals, nursing homes, clinics and private homes.
	4 Welders, Cutters, Solderers and Brazers	801	\$53,100	Weld and solder components, dismantle metal assemblies and analyze blueprints.
	5 Hairdressers, Hairstylists and Cosmetologists	692	\$29,650	Provide beauty services, such as cutting, coloring and styling hair. May provide nail and skin care services.
	6 Automotive Service Technicians and Mechanics	668	\$42,570	Diagnose, adjust, repair, or overhaul automotive vehicles.
	7 Emergency Medical Technicians and Paramedics	475	\$31,330	Administer first-aid treatment and life-support care to persons in a pre-hospital setting.
	8 Bus and Truck Mechanics and Diesel Engine Specialists	411	\$51,620	Perform routine maintenance and repair of any type of diesel engine.
	9 Medical Records and Health Information Technicians	409	\$38,550	Process and maintain medical records in a manner consistent with requirements of the health care system.
	10 Phlebotomists	309	\$27,300	Draw blood for tests, transfusions, donations, or research.



- What education do I need for this occupation?
- Where can I get the necessary education?
- What are the future employment opportunities?
- What wages are typical?

Visit [www.RUReady.ND.gov](http://www.RUReady.ND.gov) to learn more about these and other occupations.

	Typical Entry Level Education and Career	Total Openings	Avg 2015 Wage	Examples of Tasks Performed
<b>Associate's Degree</b>	1 Computer User Support Specialists	439	\$46,820	Provide technical assistance to computer users in person, via telephone or electronically.
	2 Preschool Teachers, Except Special Education	340	\$37,960	Instruct children, ages 3-5, to promote social, physical and intellectual growth.
	3 Dental Hygienists	223	\$64,510	Clean teeth, examine gums, develop x-ray film and watch for signs of decay or gum disease.
	4 Civil Engineering Technicians	190	\$50,720	Apply principles of civil engineering under the direction of engineers.
	5 Computer Network Support Specialists	150	\$53,640	Analyze, troubleshoot and perform maintenance to ensure networks operate correctly.
	6 Life, Physical and Social Science Technicians, All Other	150	\$50,430	Collect samples, prepare specimens and record data to assist scientists.
	7 Radiologic Technologists	146	\$49,990	Take x-rays and CAT scans for diagnostic purposes.
	8 Web Developers	132	\$58,670	Analyze user needs to design, create and modify website content.
	9 Respiratory Therapists	124	\$50,960	Assess, treat and care for patients with breathing disorders.
	10 Medical and Clinical Laboratory Technicians	123	\$41,730	Perform medical research for the diagnosis, treatment and prevention of disease.
	11 Paralegals and Legal Assistants	122	\$43,740	Assist lawyers by preparing legal documents and researching legal precedent.
	12 Power Plant Operators	103	\$75,590	Control, operate, or maintain machinery to generate electric power.
	13 Dietetic Technicians	93	\$29,710	Assist with food service and nutritional programs, under the supervision of a dietitian.
	14 Industrial Engineering Technicians	93	\$43,950	Apply engineering theory and principles to problems of industrial layout or manufacturing production under the direction of engineers.
	15 Agricultural and Food Science Technicians	89	\$40,620	Conduct tests and experiments to improve yield and quality of crops or to increase the resistance of plants and animals to disease or insects.
<b>Bachelor's Degree</b>	1 Registered Nurses	4,030	\$58,890	Assess patient health needs, implement nursing care plans and maintain medical records.
	2 General and Operations Managers	2,146	\$104,550	Duties and responsibilities include formulating policies, managing daily operations and planning the use of materials and human resources.
	3 Accountants and Auditors	1,763	\$56,000	Prepare, examine and analyze accounting records, financial statements, or financial reports.
	4 Elementary School Teachers, Except Special Education	1,394	\$47,110	Instruct elementary students individually and in groups using various teaching methods.
	5 Secondary School Teachers, Except Special and Career/Technical Education	850	\$48,410	Teach students in one or more subjects, such as English, mathematics, or social studies in grades 7-12.
	6 Software Developers, Applications	551	\$72,720	Design, create and modify general computer applications software for client use.
	7 Civil Engineers	504	\$74,260	Perform engineering duties in planning, designing and overseeing construction of building structures and facilities.
	8 Business Operations Specialists, All Other	494	\$60,670	Handles contract negotiation and other business matters for clients.
	9 Managers, All Other	460	\$90,820	Plan, direct or coordinate the operations of public or private sector organizations.
	10 Loan Officers	442	\$70,220	Evaluate, authorize, or recommend approval of commercial, real estate, or credit loans.
	11 Chief Executives	432	\$158,580	Formulate policies and provide direction of companies within guidelines set up by a board of directors or similar governing body.
	12 Medical and Health Services Managers	393	\$91,540	Plan, direct, or coordinate medical and health services in hospitals, clinics and public health agencies.
	13 Personal Financial Advisors	373	\$83,480	Advise clients on financial planning using knowledge of tax and investment strategies and real estate.
	14 Financial Managers	372	\$110,890	Plan and coordinate accounting, banking, insurance and other financial activities.
	15 Graduate Teaching Assistants	372	N/A	Assist faculty in postsecondary institutions by teaching lower level courses.

	Typical Entry Level Education and Career	Total Openings	Avg 2015 Wage	Examples of Tasks Performed
1	Lawyers	306	\$101,840	Represent clients, prosecute or defend lawsuits, advise on legal rights and obligations.
2	Pharmacists	238	\$112,110	Dispense drugs prescribed by physicians and health practitioners to patients. May advise on medications and their use.
3	Physicians and Surgeons, All Other	174	\$219,560	Physicians who treat diseases and injuries by surgical methods.
4	Family and General Practitioners	146	\$191,930	Diagnose, treat and help prevent diseases and injuries that commonly occur in the general population.
5	Clinical, Counseling and School Psychologists	145	\$79,910	Diagnose and treat cognitive, behavioral and emotional problems, using individual, child, family and group therapies.
6	Anesthesiologists	134	\$283,200	Physicians who administer anesthetics prior to, during, or after surgery or other medical procedures.
7	Postsecondary Teachers, All Other	133	\$55,110	Teachers engaged in instruction and those doing teaching and research.
8	Chiropractors	112	\$69,310	Assess, treat and care for patients by manipulation of spine and musculoskeletal system.
9	Optometrists	105	\$125,120	Examine eyes and visual system, diagnose problems or impairments, prescribe corrective lenses and provide treatment.
10	Dentists, General	101	\$214,450	Examine, diagnose and treat diseases, injuries and malformations of teeth and gums. May fit dental appliances or provide preventative care.
11	Biological Science Teachers, Postsecondary	80	\$114,480	Teach courses in biological sciences and may include those who do a combination of teaching and research.
12	Veterinarians	61	\$85,310	Diagnose, treat, or research diseases and injuries of animals. Includes care for pets and companion animals.
13	Business Teachers, Postsecondary	56	\$108,560	Teach courses in business administration and management, such as accounting, finance, human resources, labor and industrial relations, marketing and operations research.
14	Health Specialties Teachers, Postsecondary	50	\$101,450	Teach courses in health specialties, in fields such as dentistry, laboratory technology, medicine, pharmacy, public health, therapy and veterinary medicine.
15	Mathematical Science Teachers, Postsecondary	41	\$69,870	Teach mathematical concepts, statistics, actuarial science and standardized mathematical techniques needed for solving specific problems.

**METHODOLOGY**

These careers were selected based on the projected growth and replacement openings published in Job Service North Dakota's 2014-2024 Long-Term Employment Projections report.

**TOTAL OPENINGS INCLUDE GROWTH AND REPLACEMENT OPENINGS**

Growth openings are the number of anticipated openings due to new job growth. Replacement openings are the number of anticipated openings due to workers who permanently leave an occupation (i.e., retirement, death, etc.)

**TYPICAL ENTRY-LEVEL EDUCATION**

Describes the education level most workers need to enter the occupation. The typical entry-level education is based on data from the U.S. Bureau of Labor Statistics and may differ by region or employer.

**AVERAGE 2015 WAGES**

Wage data originate from the 2015 Occupational Employment Statistics (OES) survey. Excludes overtime pay and earnings from self-employed workers.

**RURReady.ND.gov is an online education and career information delivery system designed to help individuals achieve academic and career success.**

- Elementary students can begin their career exploration with Paws in Jobland.
- Middle school and high school students can discover their strengths and interests to create a plan of study that will help them reach their goals. ACT test preparation, postsecondary education opportunities and financial aid information is available. Resume writing and job interview preparation will enhance the career planning process.
- Postsecondary students and adults can research careers, match interests to careers, update a resume and polish their job interview skills.

For more information, contact your school's Career Development Counselor or Career Advisor or the:



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