Wyoming's Highest-Paying, Fastest-Growing Jobs

Science, Technology, Engineering & Mathematics

Title	Basic Description O*NET/SOC Description (may be truncated)	Anticipated Total 2014 Employment	Wyoming Number of New Jobs, Projected 2004-2014	Wyoming Estimated Hourly Average Wage	Wyoming Estimated Yearly Wage	Most Common Education/ Training	Suggested Programs of Study	Is at least one of these programs available in Wyoming?
Source: See footnote #1	Source: See footnote #1	Source: See footnote #1	Source: See footnote #1	Source: See footnote #1		Source: See footnote #2	Source: See footnote #2	
Civil engineering technicians	Apply theory and principles of civil engineering in planning, designing, and overseeing construction and maintenance of structures and facilities under the direction of engineering staff or physical scientists.	239	48	$19.11	$39,769	Associate degree	• Civil Engineering Technology • Construction Engineering Technology	Yes
Civil engineers	Perform engineering duties in planning, designing, and overseeing construction and maintenance of building structures and facilities, such as roads, railroads, airports, bridges, harbors, channels, dams, irrigation projects, pipelines, power plants, water and sewage systems, and waste disposal units.	931	181	$29.86	$62,114	Bachelor's degree	• Civil Engineering, • Transportation and Highway Engineering • Water Resources Engineering	Yes
Electrical and electronic engineering technicians	Apply electrical and electronic theory and related knowledge, usually under the direction of engineering staff, to design, build, repair, calibrate, and modify electrical components, circuitry, controls, and machinery for subsequent evaluation and use by engineering staff in making engineering design decisions.	268	47	$26.56	$55,249	Associate degree	• Computer Engineering Technology • Computer Technology/ Computer Systems • Electrical and Electronic Engineering Technologies • Engineering Technology	Yes
Electrical engineers	Design, develop, test, or supervise the manufacturing and installation of electrical equipment, components, or systems for commercial, industrial, military, or scientific use.	221	54	$30.52	$63,467	Bachelor's degree	• Electrical, Electronics and Communications Engineering	Yes
Environmental engineers	Design, plan, or perform engineering duties in the prevention, control, and remediation of environmental health hazards utilizing various engineering disciplines.	176	53	$30.95	$64,365	Bachelor's degree	• Environmental/Environmental Health Engineering	Yes
Environmental scientists and specialists, including health	Conduct research or perform investigation for the purpose of identifying, abating, or eliminating sources of pollutants or hazards that affect either the environment or the health of the population.	272	50	$24.24	$50,420	Master's degree	• Environmental Science • Environmental Studies	Yes
Geological and petroleum technicians	Assist scientists in the use of electrical, sonic, or nuclear measuring instruments in both laboratory and production activities to obtain data indicating potential sources of metallic ore, gas, or petroleum.	408	168	$22.89	$47,608	Associate degree	• Petroleum Technology	Yes
Geoscientists, except hydrologists and geographers	Study the composition, structure, and other physical aspects of the earth.	338	78	$32.32	$67,241	Master's degree	• Geochemistry • Geological and Earth Sciences/Geosciences • Geophysics and Seismology	Yes
Hydrologists	Research the distribution, circulation, and physical properties of underground and surface waters and study the form and intensity of precipitation, its rate of infiltration into the soil, movement through the earth, and its return to the ocean and atmosphere.	162	44	$26.84	$55,829	Master's degree	• Geology/Earth Science • Hydrology and Water Resources Science • Oceanography, Chemical and Physical	Yes

1. Source: doe.state.wy.us/lmi
2. Source: www.careerinfonet.org

For additional information and resources, go to: http://www.wyomingworkforce.org/resources/links_career.aspx

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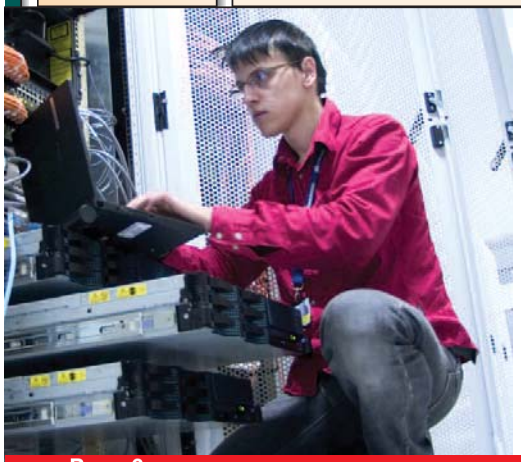
Industrial engineers	Design, develop, test, and evaluate integrated systems for managing industrial production processes including human work factors, quality control, inventory control, logistics and material flow, cost analysis, and production coordination.	287	99	$33.89	$70,502	Bachelor's degree	• Industrial Engineering	Yes
Mechanical drafters	Prepare detailed working diagrams of machinery and mechanical devices, including dimensions, fastening methods, and other engineering information.	102	31	$21.22	$44,141	Postsecondary vocational award	• Mechanical Drafting and Mechanical Drafting CAD/CADD	Yes
Mechanical engineers	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.	181	54	$34.06	$70,837	Bachelor's degree	• Mechanical Engineering	Yes
Mining and geological engineers, including mining safety engineers	Determine the location and plan the extraction of coal, metallic ores, nonmetallic minerals, and building materials, such as stone and gravel.	247	68	$40.27	$83,763	Bachelor's degree	• Mining and Mineral Engineering	Yes
Zoologists and wildlife biologists	Study the origins, behavior, diseases, genetics, and life processes of animals and wildlife.	274	37	$23.69	$49,273	Bachelor's degree	• Animal Behavior and Ethology • Cell/Cellular Biology and Anatomical Sciences • Wildlife Biology • Wildlife and Wildlands Science and Management	Yes



Engineers of many varieties are in very short supply in Wyoming; a great deal of Wyoming's needs are being met at present by outsourcing to contractors from out of state.

1. Source: doe.state.wy.us/lmi
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Surveying is in constant demand, particularly in mineral leasing, community development, and many other areas.

At present, the need for geologists, health scientists, and other advanced sciences is far outstripping the supply in Wyoming.