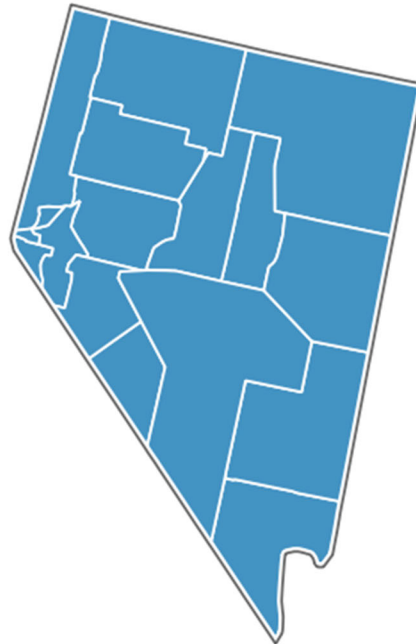


Nevada's Natural Resource Technologies Sector



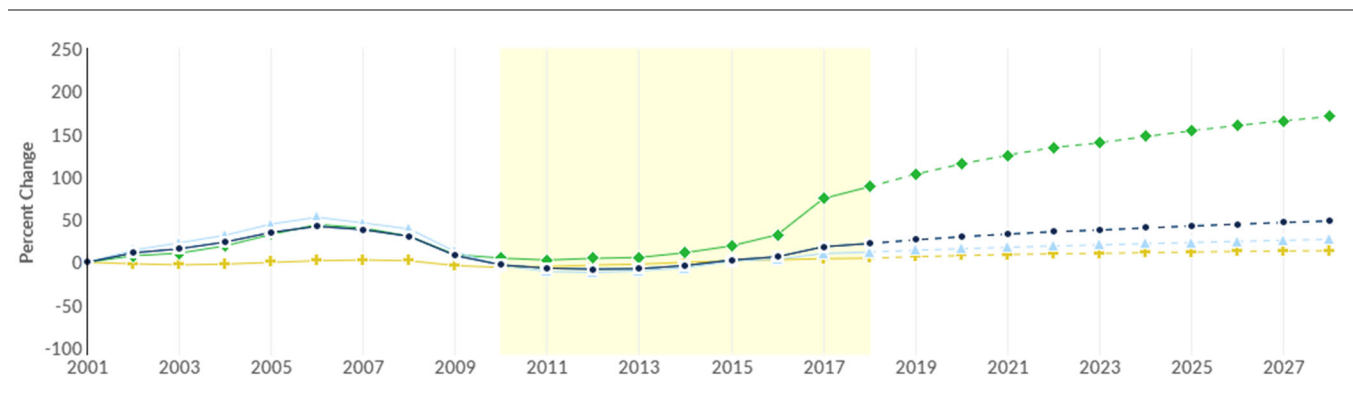
Industry Summary for Natural Resource Technologies

62,135 Jobs (2018) 31% below National average	25.9% % Change (2010-2018) Nation: 11.5%	\$77,146 Avg. Earnings Per Job (2018) Nation: \$76,211
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Industry Detail

Payrolled Business Locations (2018)	3,654
Jobs Multiplier	3.08

Regional Trends



	Region	2010 Jobs	2018 Jobs	Change	% Change
●	Nevada	49,370	62,135	12,765	25.9%
●	Las Vegas-Henderson-Paradise MSA	28,342	33,121	4,779	16.9%
●	Reno MSA	9,529	17,112	7,583	79.6%
●	United States	8,983,679	10,013,301	1,029,622	11.5%

Regional Breakdown of Nevada's Natural Resource Technologies Sector

County Name	2010 Jobs	2018 Jobs	2010 - 2018 Change	2010 - 2018 % Change	Avg. Earnings Per Job	2018 Location Quotient
Clark County	28,342	33,121	4,779	17%	\$79,155	0.50
Washoe County	9,264	11,721	2,457	27%	\$73,454	0.80
Storey County	265	5,391	5,126	1934%	\$91,404	6.89
Nye County	1,882	2,123	241	13%	\$90,016	2.66
Douglas County	1,922	2,027	105	5%	\$75,625	1.50
Lyon County	1,672	1,743	71	4%	\$52,063	2.07
Elko County	1,870	1,487	(383)	(20%)	\$65,747	1.02
Carson City County	953	1,284	331	35%	\$61,818	0.64
Churchill County	944	1,061	117	12%	\$60,092	1.76
Humboldt County	1,200	892	(308)	(26%)	\$63,588	1.74
White Pine County	262	268	6	2%	\$46,738	0.97
County not reported	183	222	39	21%	\$111,196	0.48
Eureka County	114	213	99	87%	\$86,964	0.74
Pershing County	207	195	(12)	(6%)	\$43,964	1.48
Lander County	126	145	19	15%	\$61,649	0.65
Lincoln County	102	144	42	41%	\$38,320	1.62
Esmeralda County	26	57	31	119%	\$51,692	2.28
Mineral County	36	41	5	14%	\$87,393	0.38
	49,370	62,135	12,765	26%	\$77,146	

Top Occupations Employed by these Industries

Description	Employed in Industry Group (2018)	% of Total Jobs in Industry Group (2018)
Plumbers, Pipefitters, and Steamfitters	4,332	7.0%
Construction Laborers	2,470	4.0%
Farmworkers and Laborers, Crop, Nursery, and Greenhouse	2,324	3.7%
Office Clerks, General	1,757	2.8%
Heating, Air Conditioning, and Refrigeration Mechanics and Installers	1,559	2.5%

Industry Requirements (Top Supply Chain)

Purchases from	In-region Purchases	Imported Purchases	Total Purchases
Animal Production	\$65,307,624	\$237,353,799	\$302,661,423
Crop Production	\$43,087,419	\$157,716,634	\$200,804,052
Corporate, Subsidiary, and Regional Managing Offices	\$94,664,231	\$91,640,915	\$186,305,146
Petroleum Refineries	\$16,146,067	\$110,474,983	\$126,621,050
Engineering Services	\$99,614,871	\$21,549,288	\$121,164,158

Industry Gender Breakdown



	Gender	2018 Jobs	2018 Percent
•	Males	46,206	74.4%
•	Females	15,930	25.6%

Industry Age Breakdown



	Age	2018 Jobs	2018 Percent
•	14-18	428	0.7%
•	19-24	4,249	6.8%
•	25-34	13,054	21.0%
•	35-44	14,244	22.9%
•	45-54	15,039	24.2%
•	55-64	11,391	18.3%
•	65+	3,730	6.0%

Industry Race/Ethnicity Breakdown



	Race/Ethnicity	2018 Jobs	2018 Percent
●	White	40,043	64.4%
●	Hispanic or Latino	14,248	22.9%
●	Asian	3,127	5.0%
●	Black or African American	2,939	4.7%
●	Two or More Races	1,075	1.7%
●	American Indian or Alaska Native	446	0.7%
●	Native Hawaiian or Other Pacific Islander	257	0.4%

Industry Breakdown of Nevada's Natural Resources Technology Sector

Description	2010 Jobs	2018 Jobs	2010 - 2018 Change	Avg. Earnings Per Job	2018 Location Quotient
Plumbing, Heating, and Air-Conditioning Contractors	8,125	12,001	3,876	\$70,891	1.12
Engineering Services	6,837	7,338	501	\$100,205	0.82
Site Preparation Contractors	3,717	4,635	918	\$57,166	1.02
Storage Battery Manufacturing	0	4,198	4,198	\$84,532	22.92
Crop Production	1,372	3,324	1,952	\$38,630	0.45
Research and Development in the Physical, Engineering, and Life Sciences (except Nanotechnology and Biotechnology)	2,942	2,642	(300)	\$122,601	0.72
Testing Laboratories	1,678	2,186	508	\$73,000	1.43
Water and Sewer Line and Related Structures Construction	1,961	2,151	190	\$71,146	1.25
Electric Power Distribution	2,021	1,723	(298)	\$148,321	0.91
Animal Production	1,683	1,685	2	\$34,267	0.44
Power and Communication Line and Related Structures Construction	1,494	1,453	(41)	\$79,034	0.83
Natural Gas Distribution	1,293	1,240	(53)	\$144,370	1.24
Nursery, Garden Center, and Farm Supply Stores	708	858	150	\$33,731	0.72
Environmental Consulting Services	765	817	52	\$76,033	0.89
Oil and Gas Pipeline and Related Structures Construction	986	782	(204)	\$60,881	0.56
Plumbing and Heating Equipment and Supplies (Hydronics) Merchant Wholesalers	546	689	143	\$74,493	0.75
Instruments and Related Products Manufacturing for Measuring, Displaying, and Controlling Industrial Process Variables	869	663	(206)	\$99,396	1.20
Environment, Conservation and Wildlife Organizations	358	631	273	\$41,449	1.02
Frozen Specialty Food Manufacturing	276	613	337	\$39,087	1.14
Fossil Fuel Electric Power Generation	615	605	(10)	\$179,408	0.73
Other Heavy and Civil Engineering Construction	1,232	539	(693)	\$96,817	0.47
Solid Waste Landfill	440	526	86	\$80,962	1.47
Industrial Launderers	893	518	(375)	\$57,322	0.89
Farm Labor Contractors and Crew Leaders	405	515	110	\$25,330	0.17
Perishable Prepared Food Manufacturing	220	512	292	\$33,250	1.06
Warm Air Heating and Air-Conditioning Equipment and Supplies Merchant Wholesalers	398	411	13	\$64,875	0.69
Ice Cream and Frozen Dessert Manufacturing	472	384	(88)	\$60,281	2.00
Spice and Extract Manufacturing	239	328	89	\$59,925	1.48
Bottled Water Manufacturing	52	326	274	\$73,770	2.25
Surveying and Mapping (except Geophysical) Services	265	326	61	\$74,702	0.69
All Other Miscellaneous Electrical Equipment and Component Manufacturing	258	316	58	\$106,016	1.15
Fluid Milk Manufacturing	387	307	(80)	\$79,392	0.62
Confectionery Manufacturing from Purchased Chocolate	190	287	97	\$31,751	0.98
Meat Processed from Carcasses	69	259	190	\$46,666	0.22
Septic Tank and Related Services	192	258	66	\$51,353	0.96
Mayonnaise, Dressing, and Other Prepared Sauce Manufacturing	73	257	184	\$67,441	1.68

Other Electronic Component Manufacturing	127	224	97	\$54,138	0.40
Coffee and Tea Manufacturing	209	212	3	\$63,732	1.01
Industrial and Commercial Fan and Blower and Air Purification Equipment Manufacturing	187	208	21	\$52,186	0.77
Geothermal Electric Power Generation	163	206	43	\$148,472	19.97
Industrial Valve Manufacturing	259	206	(53)	\$67,684	0.92
Fruit and Vegetable Canning	134	198	64	\$75,518	0.37
Plastics Pipe and Pipe Fitting Manufacturing	298	185	(113)	\$56,945	0.73
Breakfast Cereal Manufacturing	138	168	30	\$86,216	1.46
Support Activities for Animal Production	168	163	(5)	\$27,531	0.43
Water Supply and Irrigation Systems	98	157	59	\$56,870	0.38
Other Animal Food Manufacturing	21	156	135	\$58,996	0.50
Hazardous Waste Treatment and Disposal	140	147	7	\$65,205	0.45
Air-Conditioning and Warm Air Heating Equipment and Commercial and Industrial Refrigeration Equipment Manufacturing	152	139	(13)	\$95,416	0.18
Roofing, Siding, and Insulation Material Merchant Wholesalers	112	139	27	\$76,889	0.42
Capacitor, Resistor, Coil, Transformer, and Other Inductor Manufacturing	161	129	(32)	\$55,367	0.84
Measuring, Dispensing, and Other Pumping Equipment Manufacturing	134	126	(8)	\$71,828	0.48
Plastics Plumbing Fixture Manufacturing	52	125	73	\$51,945	0.98
Other Basic Inorganic Chemical Manufacturing	226	125	(101)	\$117,384	0.35
Soft Drink Manufacturing	99	112	13	\$62,825	0.15
Tortilla Manufacturing	62	107	45	\$32,001	0.61
Dog and Cat Food Manufacturing	111	103	(8)	\$80,242	0.43
Electronic Connector Manufacturing	19	96	77	\$38,446	0.50
Power, Distribution, and Specialty Transformer Manufacturing	<10	93	Insf. Data	\$229,017	0.40
Air and Gas Compressor Manufacturing	53	88	35	\$128,051	0.49
Dried and Dehydrated Food Manufacturing	116	88	(28)	\$40,006	0.81
Other Snack Food Manufacturing	21	84	63	\$53,904	0.23
Metal Tank (Heavy Gauge) Manufacturing	88	80	(8)	\$69,710	0.25
Instrument Manufacturing for Measuring and Testing Electricity and Electrical Signals	85	79	(6)	\$72,196	0.23
Geophysical Surveying and Mapping Services	125	77	(48)	\$70,500	0.54
Fluid Power Valve and Hose Fitting Manufacturing	64	76	12	\$68,754	0.24
Nonchocolate Confectionery Manufacturing	83	75	(8)	\$57,461	0.39
All Other Miscellaneous Waste Management Services	36	75	39	\$51,727	0.44
Breweries	14	72	58	\$40,176	0.11
Ice Manufacturing	60	66	6	\$49,344	0.99
Dry Pasta, Dough, and Flour Mixes Manufacturing from Purchased Flour	30	65	35	\$43,981	0.32
Finfish Fishing	77	64	(13)	\$108,906	0.49
Electric Bulk Power Transmission and Control	0	63	63	\$125,320	0.27
Current-Carrying Wiring Device Manufacturing	<10	62	Insf. Data	\$81,323	0.21
Soil Preparation, Planting, and Cultivating	48	61	13	\$42,069	0.18
Other Measuring and Controlling Device Manufacturing	71	58	(13)	\$74,184	0.18
Food Product Machinery Manufacturing	<10	54	Insf. Data	\$60,655	0.31
Steam and Air-Conditioning Supply	73	51	(22)	\$114,422	3.56
Other Nonhazardous Waste Treatment and Disposal	21	49	28	\$53,059	0.31

Primary Battery Manufacturing	<10	49	Insf. Data	\$81,092	0.43
Seafood Product Preparation and Packaging	83	48	(35)	\$65,808	0.15
Automatic Environmental Control Manufacturing for Residential, Commercial, and Appliance Use	127	47	(80)	\$90,307	0.31
Commercial, Industrial, and Institutional Electric Lighting Fixture Manufacturing	39	47	8	\$53,509	0.22
Fertilizer (Mixing Only) Manufacturing	22	47	25	\$68,391	0.61
Postharvest Crop Activities (except Cotton Ginning)	80	46	(34)	\$42,702	0.06
Cheese Manufacturing	0	46	46	\$95,269	0.10
Solar Electric Power Generation	59	41	(18)	\$127,205	1.48
Sewage Treatment Facilities	<10	41	Insf. Data	\$85,247	0.73
All Other Miscellaneous Food Manufacturing	58	38	(20)	\$71,598	0.12
Hunting and Trapping	58	36	(22)	\$20,566	0.86
Industrial Process Furnace and Oven Manufacturing	<10	35	Insf. Data	\$54,516	0.40
Farm Management Services	31	33	2	\$31,703	0.18
Pipeline Transportation of Natural Gas	30	32	2	\$112,390	0.12
Frozen Fruit, Juice, and Vegetable Manufacturing	14	32	18	\$78,363	0.11
Other Communication and Energy Wire Manufacturing	54	26	(28)	\$83,242	0.23
Poultry Processing	0	24	24	\$58,125	0.01
Support Activities for Forestry	34	22	(12)	\$22,071	0.12
Animal (except Poultry) Slaughtering	0	21	21	\$58,508	0.02
Flavoring Syrup and Concentrate Manufacturing	20	21	1	\$57,950	0.20
Crop Harvesting, Primarily by Machine	<10	20	Insf. Data	\$28,244	0.16
Distilleries	<10	18	Insf. Data	\$81,411	0.14
Dry, Condensed, and Evaporated Dairy Product Manufacturing	0	16	16	\$101,069	0.10
Industrial Gas Manufacturing	21	15	(6)	\$75,293	0.09
Fluid Power Cylinder and Actuator Manufacturing	<10	13	Insf. Data	\$53,574	0.09
All Other Leather Good and Allied Product Manufacturing	30	11	(19)	\$49,172	0.11
Fabricated Pipe and Pipe Fitting Manufacturing	39	10	(29)	\$55,875	0.04
Fats and Oils Refining and Blending	0	<10	Insf. Data	Insf. Data	0.04
All Other Basic Organic Chemical Manufacturing	22	<10	Insf. Data	Insf. Data	0.01
Farm Machinery and Equipment Manufacturing	<10	<10	Insf. Data	Insf. Data	0.01
Wineries	12	<10	Insf. Data	Insf. Data	0.01
Soybean and Other Oilseed Processing	<10	<10	Insf. Data	Insf. Data	0.06
Pesticide and Other Agricultural Chemical Manufacturing	0	<10	Insf. Data	Insf. Data	0.02
Wet Corn Milling	0	<10	Insf. Data	Insf. Data	0.01
Flour Milling	0	<10	Insf. Data	Insf. Data	0.03
Logging	<10	<10	Insf. Data	Insf. Data	0.00
Rice Milling	0	<10	Insf. Data	Insf. Data	0.02
Malt Manufacturing	0	<10	Insf. Data	Insf. Data	0.12
Tobacco Manufacturing	<10	<10	Insf. Data	Insf. Data	0.02
Specialty Canning	0	<10	Insf. Data	Insf. Data	0.09
Chocolate and Confectionery Manufacturing from Cacao Beans	0	<10	Insf. Data	Insf. Data	0.02
Rendering and Meat Byproduct Processing	53	<10	Insf. Data	Insf. Data	0.10
Plumbing Fixture Fitting and Trim Manufacturing	<10	<10	Insf. Data	Insf. Data	0.08
Turbine and Turbine Generator Set Units Manufacturing	38	<10	Insf. Data	Insf. Data	0.00

Other Metal Valve and Pipe Fitting Manufacturing	34	<10	Insf. Data	Insf. Data	0.06
Heating Equipment (except Warm Air Furnaces) Manufacturing	16	<10	Insf. Data	Insf. Data	0.06
Natural Gas Extraction	<10	<10	Insf. Data	Insf. Data	0.00
Fluid Power Pump and Motor Manufacturing	62	<10	Insf. Data	Insf. Data	0.05
Wind Electric Power Generation	0	<10	Insf. Data	Insf. Data	0.03
Other Marine Fishing	0	0	0	\$0	0.00
Cotton Ginning	0	0	0	\$0	0.00
Solid Waste Combustors and Incinerators	0	0	0	\$0	0.00
Timber Tract Operations	0	0	0	\$0	0.00
Forest Nurseries and Gathering of Forest Products	0	0	0	\$0	0.00
Roasted Nuts and Peanut Butter Manufacturing	0	0	0	\$0	0.00
Shellfish Fishing	0	0	0	\$0	0.00
Ethyl Alcohol Manufacturing	0	0	0	\$0	0.00
Power Boiler and Heat Exchanger Manufacturing	<10	0	Insf. Data	\$0	0.00
Cane Sugar Manufacturing	0	0	0	\$0	0.00
Totalizing Fluid Meter and Counting Device Manufacturing	103	0	(103)	\$0	0.00
Hydroelectric Power Generation	0	0	0	\$0	0.00
Creamery Butter Manufacturing	0	0	0	\$0	0.00
Carbon and Graphite Product Manufacturing	0	0	0	\$0	0.00
Beet Sugar Manufacturing	0	0	0	\$0	0.00
Nuclear Electric Power Generation	0	0	0	\$0	0.00
Nitrogenous Fertilizer Manufacturing	13	0	(13)	\$0	0.00
Phosphatic Fertilizer Manufacturing	<10	0	Insf. Data	\$0	0.00
Biomass Electric Power Generation	0	0	0	\$0	0.00
Other Electric Power Generation	0	0	0	\$0	0.00
	49,370	62,135	12,765	\$77,146	

Data Sources and Calculations

Industry Data

Emsi industry data have various sources depending on the class of worker. (1) For QCEW Employees, Emsi primarily uses the QCEW (Quarterly Census of Employment and Wages), with supplemental estimates from County Business Patterns. (2) Non-QCEW employees data are based on a number of sources including QCEW, Current Employment Statistics, County Business Patterns, BEA State and Local Personal Income reports, the National Industry-Occupation Employment Matrix (NIOEM), the American Community Survey, and Railroad Retirement Board statistics. (3) Self-Employed and Extended Proprietor classes of worker data are primarily based on the American Community Survey, Nonemployer Statistics, and BEA State and Local Personal Income Reports. Projections for QCEW and Non-QCEW Employees are informed by NIOEM and long-term industry projections published by individual states.

Input-Output Data

The input-output model in this report is Emsi's gravitational flows multi-regional social account matrix model (MR-SAM). It is based on data from the Census Bureau's Current Population Survey and American Community Survey; as well as the Bureau of Economic Analysis' National Income and Product Accounts, Input-Output Make and Use Tables, and Gross State Product data. In addition, several Emsi in-house data sets are used, as well as data from Oak Ridge National Labs on the cost of transportation between counties.

Staffing Patterns Data

The staffing pattern data in this report are compiled from several sources using a specialized process. For QCEW and Non-QCEW Employees classes of worker, sources include Occupational Employment Statistics, the National Industry-Occupation Employment Matrix, and the American Community Survey. For the Self-Employed and Extended Proprietors classes of worker, the primary source is the American Community Survey, with a small amount of information from Occupational Employment Statistics.

State Data Sources

This report uses state data from the following agencies: Nevada Department of Employment, Training and Rehabilitation, Information Development and Processing Division, Research and Analysis Bureau.