

Alaska Aviation Workforce Summary

LARGEST ALASKA EMPLOYERS FOR ALL AVIATION OCCUPATIONS

Employers (alphabetical order)	
Alaska Airlines Inc.	Juneau International Airport
Bethel Airport	Pen Air
Era Alaska	Swissport USA Inc.
Everts Air Alaska	Ted Stevens Anchorage International Airport
Fairbanks International Airport	Wasilla Airport

FASTEST GROWING ALASKA AVIATION OCCUPATION THAT REQUIRE SOME POSTSECONDARY TRAINING/EDUCATION

TOP OCCUPATION	EMPLOYED (2018)	GROWTH (2018-2028)
Airline Pilots, Copilots, and Flight Engineers	2,066	95

LARGEST AVIATION OCCUPATIONS IN ALASKA
THAT REQUIRE SOME POSTSECONDARY TRAINING/EDUCATION

TOP OCCUPATIONS	MEDIAN HOURLY EARNINGS	ANNUAL OPENINGS (NEW & REPLACEMENT)	ANNUAL COMPLETIONS – UA (2017)	ANNUAL COMPLETIONS – OTHER (2017)	ANNUAL GAP
Airline Pilots, Copilots, and Flight Engineers	\$46.45	319	44	*N/A	-275
Aircraft Mechanics, Service Technicians, and Avionics Technicians	\$32.15	190	69	*N/A	-121
General and Operations Managers	\$41.16	70	35	15	-20
Air Traffic Controllers	\$51.23	52	8	0	-44

* Data is **Not Available**. Education and training for this occupation is likely being offered outside of the University and/or through non-degree and/or non-credit offerings.

NOTE: This report uses state data from the Alaska Department of Labor and Workforce Development and labor market information from Emsi. The fastest growing and largest occupations in this report include jobs requiring industry-specific education and training, and does not include general administrative occupations universal to all industry sectors such as general managers, accountants, bookkeepers, etc. Fastest growing occupations were based on projections of employees needed by the largest employer groups within this industry. Emsi's source of postsecondary completions data is IPEDS (Integrated Postsecondary Education Data System), an annual survey of institutions conducted by the National Center for Education Statistics. Education and training programs were linked to each occupation based on the closest direct association/title, recognizing other programs not included in this report) may provide some level of preparation. For more detailed information and data considerations, please refer to the Alaska Aviation Workforce Report.

Alaska Construction Workforce Summary

LARGEST ALASKA EMPLOYERS FOR ALL CONSTRUCTION OCCUPATIONS

EMPLOYERS (alphabetical order)	
Aecom Global	Granite Construction
Alaska Frontier Constructors Inc.	Great Northwest Inc.
Alcan Electric & Engineering Inc.	Kiewit Construction
Alutiiq Management Service LLC	Lockheed Martin
Alyeska Pipeline Service Co	Nesser Construction
Anchorage Sand & Gravel	North Slope Public Works Department
CH2M Hill	Osborne Construction Co
Chugach Management Service Inc.	Superior Group Inc.
Davis Constructors & Engineers	Territory North Constructors
Dowl	US Army Corps of Engineers
Doyon Utilities LLC	WH Pacific Solutions Group

FASTEST GROWING ALASKA CONSTRUCTION OCCUPATIONS THAT REQUIRE SOME POSTSECONDARY TRAINING/EDUCATION

TOP OCCUPATIONS	EMPLOYED (2018)	GROWTH (2018-2028)
Heavy and Tractor-Trailer Truck Drivers	213	18
Mechanical Engineers	214	9
Heating, Air Conditioning, and Refrigeration Mechanics and Installers	282	5
Industrial Engineers	21	4
Electrical Engineers	150	2

LARGEST CONSTRUCTION OCCUPATIONS IN ALASKA
THAT REQUIRE SOME POSTSECONDARY TRAINING/EDUCATION

TOP OCCUPATIONS	MEDIAN HOURLY EARNINGS	ANNUAL OPENINGS (NEW & REPLACEMENT)	ANNUAL COMPLETIONS – UA (2017)	ANNUAL COMPLETIONS – OTHER (2017)	ANNUAL GAP
Civil and Mechanical Engineers	\$53.87	179	143	0	-36
Construction Managers	\$46.05	97	23	1	-73
Architects, Except Landscape and Naval	\$52.22	59	0	0	-59
Surveyors	\$32.09	62	21	*N/A	-41
Heating, Air Conditioning, and Refrigeration Mechanics and Installers	\$28.76	50	10	37	-3

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Alaska Education Workforce Summary

LARGEST ALASKA EMPLOYERS FOR ALL EDUCATION OCCUPATIONS

EMPLOYERS (alphabetical order)	
Anchorage School District	Kuspuk School District
Dillingham City School District	Lower Kuskokwim School
Fairbanks North Star Borough School District	Matanuska-Su Borough School District
Job Corps Center	North Slope Borough School District
Juneau School District	Northwest Arctic School District
Kenai Peninsula Borough School District	Raven Correspondence Program & Home School
Ketchikan Gateway School District	Wrangell Public Schools
Kodiak Island School District	Yukon Koyukuk School District

FASTEST GROWING ALASKA EDUCATION OCCUPATIONS THAT REQUIRE SOME POSTSECONDARY TRAINING/EDUCATION

TOP OCCUPATIONS 1-10	EMPLOYED (2018)	GROWTH (2018-2028)	TOP OCCUPATIONS 11-20	EMPLOYED (2018)	GROWTH (2018-2028)
Elementary School Teachers	3,133	117	Education, Training, and Library Workers	249	14
Teacher Assistants	3,905	102	Instructional Coordinators	214	12
Secondary School Teachers	2,208	71	Secondary Special Education Teachers	256	11
Substitute Teachers	1,497	58	Middle School Special Education Teachers	220	11
Middle School Teachers	1,458	47	Education & Guidance Counselors	381	8
Elementary Special Education Teachers	698	31	Speech-Language Pathologists	112	8
Teachers and Instructors, All Other	291	20	Secondary CTE Teachers	158	7
Elementary and Secondary Administrators	625	19	Registered Nurses	80	6
Postsecondary Teachers	76	16	Clinical and School Psychologists	88	6
Kindergarten Teachers	915	14	Librarians	145	6

LARGEST EDUCATION OCCUPATIONS IN ALASKA
THAT REQUIRE SOME POSTSECONDARY TRAINING/EDUCATION

TOP OCCUPATIONS	MEDIAN HOURLY EARNINGS	ANNUAL OPENINGS (NEW & REPLACEMENT)	ANNUAL COMPLETIONS – UA (2017)	ANNUAL COMPLETIONS – OTHER (2017)	ANNUAL GAP
Teacher Assistants	\$18.95	518	0	1	** -517
Secondary Teachers (includes Middle School)	\$38.37	287	62	*N/A	-225
Elementary School Teachers	\$35.68	251	88	*N/A	-163
Kindergarten and Preschool Teachers	\$25.06	184	45	*N/A	-139
Special Education Teachers	\$35.59	105	66	0	-39
Education Administrators	\$49.56	89	42	0	-47
Education and Training Library Workers	\$20.58	97	0	*N/A	-97
Education & Guidance Counselors	\$31.99	74	18	0	-56

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** Requires some postsecondary; not a degree.

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Alaska Healthcare Workforce Summary

LARGEST ALASKA EMPLOYERS FOR ALL HEALTHCARE OCCUPATIONS

Employers (alphabetical order)

Alaska Native Tribal Health Consortium / Alaska Native Medical Center	Maniilaq Association
Alaska Psychiatric Institute	Mat-Su Regional Medical Center
Alaska Regional Hospital	Norton Sound Health Corporation
ARC of Anchorage	Petersburg Medical Center
Bartlett Regional Hospital	Providence Health & Services
Bassett Army Hospital	Southeast Alaska Regional Health Consortium
Bristol Bay Area Health Corporation	Sitka Community Hospital
Central Peninsula General Hospital	Southcentral Foundation
Fairbanks Memorial Hospital	South Peninsula Hospital
Hope Community Resources Inc.	VA Medical Center Anchorage
JBER - Joint Base Elmendorf-Richardson	Yukon Kuskokwim Health Corporation
Ketchikan Peacehealth Hospital	

FASTEST GROWING ALASKA HEALTHCARE OCCUPATIONS

THAT REQUIRE SOME POSTSECONDARY TRAINING/EDUCATION

TOP OCCUPATIONS 1-10	EMPLOYED (2018)	GROWTH (2018-2028)	TOP OCCUPATIONS 11-20	EMPLOYED (2018)	GROWTH (2018-2028)
Registered Nurses	5,119	1,129	Physical Therapists	543	157
Medical Assistants	1,716	668	Massage Therapists	373	133
Nursing Assistants	1,620	357	Dentists, General	427	127
Dental Assistants	1,274	222	Family and General Practitioners	519	121
Medical and Health Services Managers	813	218	Dental Hygienists	554	115
Chiropractors	426	216	Clinical Lab Technologists and Technicians	586	103
Physicians and Surgeons, All Other	581	200	Behavioral Health Counselors	584	97
Nurse Practitioners	469	199	Radiologic Technologists	344	91
Physician Assistants	525	191	Medical Records/Health Information Tech.	581	90
Licensed Practical and Licensed Vocational Nurses	456	190	Occupational Therapists	262	73

LARGEST HEALTHCARE OCCUPATIONS IN ALASKA
THAT REQUIRE SOME POSTSECONDARY TRAINING/EDUCATION

TOP 5 MEDICAL OCCUPATIONS	MEDIAN HOURLY EARNINGS	ANNUAL OPENINGS (NEW & REPLACEMENT)	ANNUAL COMPLETIONS – UA (2017)	ANNUAL COMPLETIONS – OTHER (2017)	ANNUAL GAP
Registered Nurses	\$41.36	444	243	60	-141
Medical Assistants	\$19.86	305	80	114	-111
Nursing Assistants	\$18.00	293	79	*N/A	-214
Dental Assistants	\$22.40	184	20	*N/A	-164
Medical and Health Services Managers	\$48.35	115	33	7	-75

TOP 5 BEHAVIORIAL OCCUPATIONS	MEDIAN HOURLY EARNINGS	ANNUAL OPENINGS (NEW & REPLACEMENT)	ANNUAL COMPLETIONS – UA (2017)	ANNUAL COMPLETIONS – OTHER (2017)	ANNUAL GAP
Social Workers	\$22.79	326	64	*N/A	-262
Social and Community Service Managers	\$24.80	233	107	*N/A	-126
Counselors, All	\$29.28	200	14	22	-164
Psychiatric Technicians	\$18.34	52	*N/A	*N/A	-52
Therapists, All	\$25.31	31	95	0	64

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Alaska IT & Telecommunications Workforce Summary

LARGEST ALASKA EMPLOYERS FOR ALL IT & TELECOMMUNICATIONS OCCUPATIONS

EMPLOYERS (alphabetical order)	
Alaska Communications	GCI Cable Inc.
AT&T Alascom	New Horizons Telecom Inc.
ATS Alaska Inc.	Tel Alaska Inc.
Bering Sea Environmental LLC	Unicom Inc.
Bering Straits Logistics Service	United Utilities Inc.

FASTEST GROWING ALASKA IT & TELECOMMUNICATIONS OCCUPATIONS

THAT REQUIRE SOME POSTSECONDARY TRAINING/EDUCATION

TOP OCCUPATIONS 1-7	EMPLOYED (2018)	GROWTH (2018-2028)	TOP OCCUPATIONS 8-14	EMPLOYED (2018)	GROWTH (2018-2028)
Software Developers, Applications	209	54	CIO/IS Managers	99	8
Web Developers	149	38	Computer Occupations, All Other	101	7
Computer User Support Specialists	231	21	Market Research Analysts and Marketing Specialists	52	7
Telecommunications Equipment Installers and Repairers, Except Line	623	12	Computer Network Support Specialists	167	6
Software Developers, Systems Software	94	11	Electronics Engineers, Except Computer	77	6
Radio, Cellular, and Tower Equipment Installers and Repairs	111	8	Information Security Analysts	24	5
Computer Systems Analysts	230	8	Training and Development Specialists	64	3

LARGEST IT & TELECOMMUNICATIONS OCCUPATIONS IN ALASKA
THAT REQUIRE SOME POSTSECONDARY TRAINING/EDUCATION

TOP OCCUPATIONS	MEDIAN HOURLY EARNINGS	ANNUAL OPENINGS (NEW & REPLACEMENT)	ANNUAL COMPLETIONS – UA (2017)	ANNUAL COMPLETIONS – OTHER (2017)	ANNUAL GAP
Telecommunications Equipment Installers and Repairers, Except Line	\$35.21	222	28	*N/A	-194
Network and Computer Systems Administrators	\$42.85	135	37	2	-96
Computer User Support Specialists	\$27.05	88	15	*N/A	-73
Web Developer	\$17.52	76	0	*N/A	-76
Software Developer, Applications	\$51.81	64	6	14	-44
Computer Programmers	\$39.54	40	9	0	-31

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Alaska Maritime Workforce Summary

LARGEST ALASKA EMPLOYERS FOR ALL MARITIME OCCUPATIONS

EMPLOYERS (alphabetical order)	
Alaska Marine Highway	Ocean Beauty Seafoods LLC
Alyeska Seafoods Inc.	Peter Pan Seafoods Inc.
Boyer Towing Inc.	Seward Fisheries Inc.
Copper River Seafoods	Sitka Sound Seafoods Inc.
Crowley Maritime Corp	Snug Harbor Seafoods.
International Seafood-Alaska	Taku A Taste Of Juneau
Klawock Oceanside Inc.	Trident Seafoods Corp
Norquest Seafoods Inc.	Vigor Alaska
Norton Sound Seafood Products	Westward Seafoods Inc.

FASTEST GROWING ALASKA MARITIME OCCUPATIONS

TOP OCCUPATIONS	EMPLOYED (2018)	GROWTH (2018-2028)
Captains, Mates, and Pilots of Water Vessels	643	57
Sailors and Marine Oilers	567	24
Heavy and Tractor-Trailer Truck Drivers	135	14
Industrial Machinery Mechanics	108	11
Transportation Attendants, Except Flight Attendants	82	9

LARGEST MARITIME OCCUPATIONS IN ALASKA

TOP OCCUPATIONS	MEDIAN HOURLY EARNINGS	ANNUAL OPENINGS (NEW & REPLACEMENT)	TYPICAL ENTRY LEVEL EDUCATION	*TRAINING AVAILABLE AT UA	*TRAINING AVAILABLE AT AVTEC/OTHER
Fish Cutters and Trimmers	\$10.53	378	No Formal	N/A	N/A
Fish Harvesters and Related Fisheries Workers	\$14.80	227	No Formal	Yes	Yes
Packaging and Filling Machine Operators and Tenders/Packers	\$13.24	237	High School	N/A	N/A
Captains, Mates, Pilots and Motorboat Operators of Water Vessels	\$30.18	125	Some Postsecondary	Yes	Yes
Sailors and Marine Oilers	\$20.88	127	Some Postsecondary	Yes	Yes
Industrial Machinery Mechanics	\$29.87	72	High School	Yes	Yes
Inspectors, Testers, Sorters, and Weighers	\$29.67	79	High School	N/A	N/A
Ship Engineers	\$31.59	43	Some Postsecondary	Yes	Yes
Industrial Production Managers (Fisheries/Seafood)	\$35.82	20	Bachelor's Degree	Yes	No
Motorboat Operators	\$22.12	16	Some Postsecondary	Yes	Yes

*Due to a significant amount of non-credit offerings, further collection is needed to provide 2017 completion data. For the most recent inventory of UA outcomes, see the FY17 Maritime Education and Training Inventory (http://www.alaska.edu/fsmi/training-employment/FY17-UA-Maritime-Inventory_1-23-18.pdf). N/A = Data not available.

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Alaska Mining Workforce Summary

LARGEST ALASKA EMPLOYERS FOR ALL MINING OCCUPATIONS

EMPLOYERS (alphabetical order)	
Coeur Mining (Kensington Gold Mine)	Northland Minerals Inc.
Donlin Gold LLC	Pebble Partnership
Fairweather Construction	Pogo Mine
Greens Creek Mining Co	Polar Mining Inc.
Igiugig Native Corp	Tech Cominco Alaska Inc. (Red Dog Mine)
Kinross Gold (Fort Knox Mine)	Usibelli Coal Mine

FASTEST GROWING ALASKA MINING OCCUPATIONS THAT REQUIRE SOME POSTSECONDARY TRAINING/EDUCATION

TOP OCCUPATIONS 1-5	EMPLOYED (2018)	GROWTH (2018-2028)	TOP OCCUPATIONS 6-10	EMPLOYED (2018)	GROWTH (2018-2028)
Heavy and Tractor-Trailer Truck Drivers	114	22	Mining and Geological Engineers, Including Mining Safety Engineers	64	4
Geological and Petroleum Technicians	32	10	Chemical Technicians	27	4
General and Operations Managers	57	8	Training and Development Specialists	12	3
Geoscientists, Except Hydrologists and Geographers	38	7	Electrical and Electronics Repairers, Commercial and Industrial Equipment	15	2
Petroleum Engineers	<10	7	Occupational Health and Safety Specialists	16	1

LARGEST MINING OCCUPATIONS IN ALASKA
THAT REQUIRE SOME POSTSECONDARY TRAINING/EDUCATION

TOP OCCUPATIONS	MEDIAN HOURLY EARNINGS	ANNUAL OPENINGS (NEW & REPLACEMENT)	ANNUAL COMPLETIONS – UA (2017)	ANNUAL COMPLETIONS – OTHER (2017)	ANNUAL GAP
Heavy and Tractor-Trailer Truck Drivers	\$25.72	348	*N/A	2	** -346
Geoscientists, Except Hydrologists and Geographers	\$48.65	79	37	1	-41
Geological and Petroleum Technicians	\$37.16	70	91	0	21
Chemical Technicians	\$25.49	56	112	0	56
Mining and Geological Engineers, including Mining Safety Engineers	\$55.22	12	8	0	-4

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Alaska Oil & Gas Workforce Summary

LARGEST ALASKA EMPLOYERS FOR ALL OIL & GAS OCCUPATIONS

EMPLOYERS (alphabetical order)	
Alaska Interstate Construction LLC	Exxon Mobile
Alyeska Pipeline Service Co	Granite Petroleum Inc.
Arctic Slope Regional Corporation	Halliburton
ASRC Energy Service	Hilcorp
Baker Hughes	Little Red Service Inc.
Beacon	Nabors Drilling
BJ Services Co	North Slope Telecom Inc.
BP Exploration Inc.	Peak Oilfield Service Co
Chugach Alaska Corp	Schlumberger
ConocoPhillips Alaska	Shell Exploration & Production
Global Geophysical	Udelhoven Oilfield System Service

FASTEST GROWING ALASKA OIL & GAS OCCUPATIONS THAT REQUIRE SOME POSTSECONDARY TRAINING/EDUCATION

TOP OCCUPATIONS 1-6	EMPLOYED (2018)	GROWTH (2018-2028)	TOP OCCUPATIONS 7-12	EMPLOYED (2018)	GROWTH (2018-2028)
Petroleum Engineers	674	56	Architectural and Engineering Managers	75	11
Geoscientists, Except Hydrologists and Geographers	221	35	Engineers, All Other	88	8
Geological and Petroleum Technicians	292	25	Surveyors	35	8
Heavy and Tractor-Trailer Truck Drivers	267	17	Engineering Technicians, Except Drafters, All Other	63	7
Business Operations Specialists, All Other	127	15	Architectural and Civil Drafters	19	7
Computer Systems Analysts	71	12	Occupational Health and Safety Specialists	98	7

LARGEST OIL & GAS OCCUPATIONS IN ALASKA
THAT REQUIRE SOME POSTSECONDARY TRAINING/EDUCATION

TOP OCCUPATIONS	MEDIAN HOURLY EARNINGS	ANNUAL OPENINGS (NEW & REPLACEMENT)	ANNUAL COMPLETIONS – UA (2017)	ANNUAL COMPLETIONS – OTHER (2017)	ANNUAL GAP
Engineers – Mechanical, Architectural	\$57.06	137	89	0	-48
Geoscientists, Except Hydrologists and Geographers	\$48.65	79	37	1	-41
Geological and Petroleum Technicians	\$39.02	92	91	0	-1
Petroleum Engineers	\$66.24	63	25	0	-38
Occupational Health and Safety Specialists	\$38.79	35	16	8	-11

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