



Technical and Vocational Education Program Report

State Fiscal Year 2018

A report prepared for the Alaska Legislature
and the Alaska Workforce Investment Board
by the Alaska Department of Labor and Workforce Development

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Introduction

The Technical Vocational Education Program (TVEP), established by legislation in 2000, distributes training funds to technical and vocational education entities across Alaska's six economic regions. TVEP funds are obtained from a percentage of employee unemployment insurance contributions. A percentage of the funds must be allocated to specific institutions in accordance with Alaska Statute 23.15.835.

With the exceptions of University of Alaska, AVTEC, and Galena Interior Learning Academy, institutions must submit a grant application to the Alaska Department of Labor and Workforce Development's Division of Employment and Training Services to receive TVEP funds each fiscal year. The institutions must use these funds for technical and vocational training programs and services that align with regional workforce demands and the Alaska Workforce Investment Board's (AWIB) priority industries and state capital improvement projects.

The institutions must have a military credit policy in place for the acceptance of credit or hours toward a degree or technical program, and an articulation agreement under which high school students may earn dual credit upon completion of a vocational education course. Subsequently, TVEP grant recipients must provide program and financial reports and requests for reimbursement to the division on a quarterly basis as well as collect participant data, which the department uses to report performance.

During the reauthorization of the TVEP distribution in the 2017 regular legislative session, the Alaska Legislature requested that AWIB review the program and its current performance measures and reports, then recommend improvements.

The AWIB Executive Committee has been examining TVEP and its performance measures since July 2017. To ensure TVEP funds are used efficiently and effectively, the committee has engaged with recipients to identify potential changes to program reporting. The AWIB approved the recommended changes on May 11, 2018 at the board meeting and forwarded the recommendations to the commissioner.

Because this review process is ongoing, no changes have been made to the SFY 2018 reporting processes or to this report.

In SFY 2018, TVEP funding totaled \$11,968,900. That amount was allocated directly in the percentages and to the institutions shown below and includes the number of participants the TVEP funds served.

The training institution overviews that begin on page 7 are based on the SFY 2018 program activities recipients reported directly and include training programs, partners, regional economic impacts, program highlights, and information about new and future endeavors.

SFY 2018 TVEP Allocations	Percent	Grant Amount	# of Adults Served	# of High School Students Served	Total # of Participants
Alaska Vocational Technical Center (AVTEC)	17 percent	\$2,034,000	1,203	62	1,265
Alaska Technical Center (ATC)	9 percent	\$1,077,000	252	20	272
Amundsen Educational Center	2 percent	\$239,400	16	0	16
Galena Interior Learning Academy	4 percent	\$478,800	0	287	287
Ilisagvik College	5 percent	\$598,500	1,070	110	1,180
Northwestern Alaska Career and Technical Center (NACTEC)	3 percent	\$359,100	48	232	280
Partners for Progress in Delta, Inc.	3 percent	\$359,100	938	781	1,719
Southwest Alaska Vocational and Education Center (SAVEC)	3 percent	\$359,100	323	23	346
Yuut Elitnaurviat, Inc., People's Learning Center	9 percent	\$1,077,300	805	317	1,122
University of Alaska	45 percent	\$5,386,600	4,382	308	4,690
Total	100 percent				

Overview of Economic Regions

Each of Alaska's six economic regions (Northern, Interior, Southwest, Anchorage/Matanuska-Susitna, Gulf Coast, and Southeast) has one or more TVEP recipients and a university campus, postsecondary institution, or regional training center whose role is to help students and adults get the education and training they need to work in the region and the state.

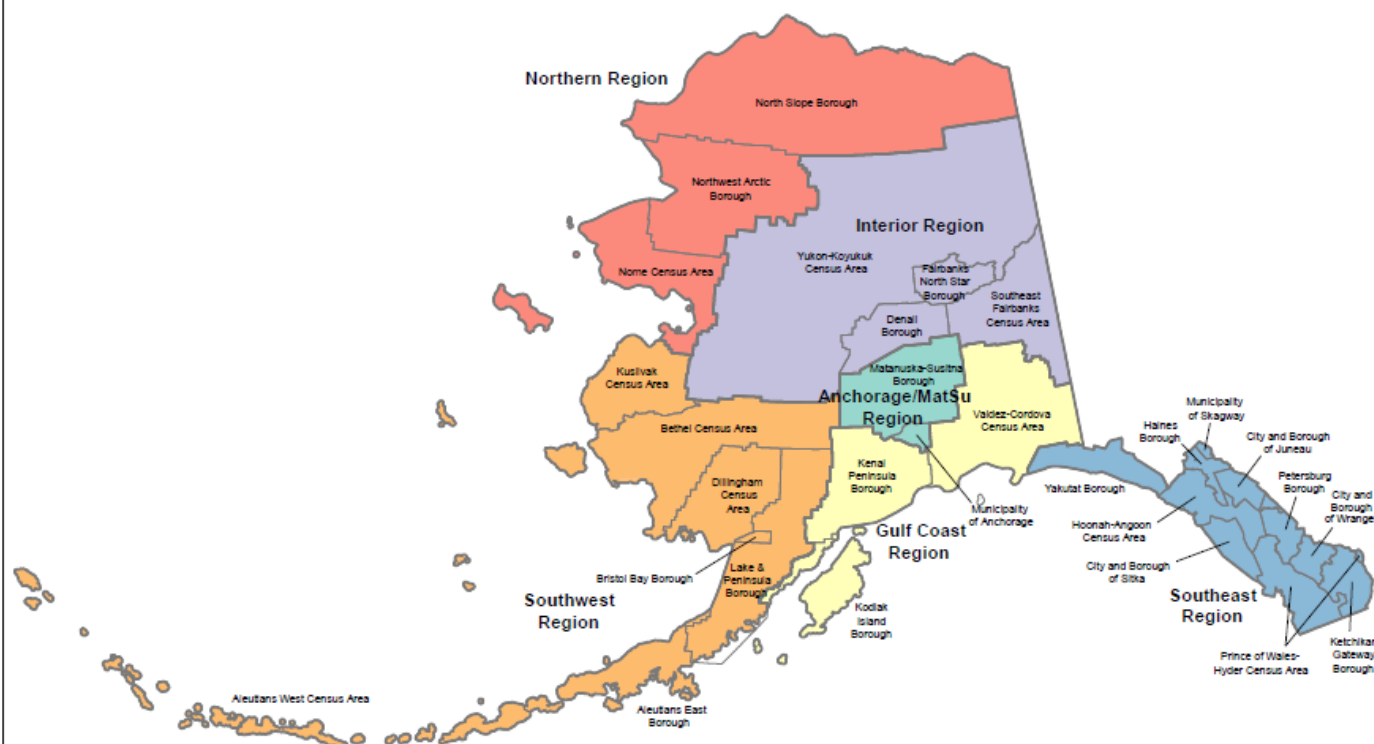
This section of the report provides an overview of Alaska's economy and of each of the regions, plus the outlook for the state's overall employment and industries in both the short and long term.

Structure of Alaska's Economy

Alaska ranks 48th among states for population but is easily the largest geographically. The state's 570,641 square miles of land make up 16 percent of the U.S. total. For the U.S. as a whole, there are 91.5 people per square mile; in Alaska there are 1.3.

Alaska's economy is heavily dependent on oil and gas and other resource extraction industries and on the federal government, including a substantial number of military bases and installations. Alaska also has more veterans per capita than any other state.

Alaska Economic Regions



Note: Based on 2013 Geography

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section

Two other major basic sector industries — those that inject new money into the state's economy by providing goods or services to outside consumers — are fishing and tourism.

Alaska has especially high concentrations of employment in natural resources and mining, at more than 3.5 times the national average. It has at least slightly higher concentrations in construction, utilities, and transportation and warehousing. The state has lower-than-average employment concentrations in manufacturing, financial activities, and professional and business services compared to the U.S. overall.

The economies and job markets in the Anchorage/Mat-Su, Gulf Coast, and Southeast regions roughly mirror statewide patterns, with declines in any of the state's major industries having either direct or ripple effects.

Fairbanks, the largest part of the Interior Region by population and job counts, also has a mix of current and projected employment that resembles the state as a whole.

Outlook for jobs and industries

In contrast to the national trend, Alaska will continue to lose net jobs in 2019 as a result of low oil prices, layoffs, and a very large state budget deficit. So far the losses have been relatively mild overall, although the oil and gas, state government, construction, and professional and business services sectors have all sustained substantial job losses. Retail is also down.

Health care and tourism-related businesses have grown moderately through the first half of 2018. In the long term, from 2016 to 2026, Alaska is projected to add 17,000 jobs for a 10-year growth rate of a little more than five percent. Health care (which also includes social services) is expected to grow more than any other industry at 21 percent.

Other relatively strong sectors include leisure and hospitality at 9 percent projected growth and management of companies at 13 percent. Large or especially important sectors projected to lose jobs or grow more slowly than the economy overall include oil and gas extraction (-3.6 percent), support activities for mining (-2.4 percent), seafood processing (-2.4 percent), and

state government, excluding university jobs (-5 percent).

Gulf Coast and Southeast

Although parts of the Gulf Coast and Southeast regions are isolated and rural, as a whole they contain a mix of jobs not dramatically different from the statewide pattern. Coastal areas have more opportunities in fishing and fishing support industries, for example, but strong health care growth is expected wherever there are stable or growing populations. Similarly, the mix of government and private sector support jobs (in stores, restaurants and bars, construction, transportation, etc.) does not differ markedly between areas with population centers of 10,000 or more.

Northern Region

The Northern Region is home to most of the state's large oil and gas industry and includes the Red Dog Mine, one of the world's largest zinc mines.

Because North Slope workers typically work a schedule close to two weeks on and two weeks off, they prompt a substantial number of jobs in food services, health care, and custodial jobs when oil and gas activity picks up and a corresponding reduction in those jobs when it falls. There are almost no permanent population centers close to oil and gas fields. The Northern Region's largest city is Utqiagvik, with about 4,500 people, but it is 200 miles away from the center of oil field activity and not connected by road.

Southwest Region

The Southwest Region depends heavily on fishing. The region supplies a large percentage of the nation's total commercial fish harvest by both poundage and value. Its Bristol Bay sockeye salmon, Bering Sea crab, and pollock harvests represent some of the largest salmon, crab, and whitefish fisheries in the world.

Fishing is largely not captured in wage and hour employment data because permit holders and their crew are self-employed and not subject to state unemployment insurance coverage and

the mandatory reporting from which we collect the most reliable employment data. What the employment data do show, however, is a large number of seafood processing jobs and the roughly typical mix of government, health care, retail, construction, and restaurant/bar employment that result from economic base industries such as the area's fisheries.

Two census areas in the region — Bethel and Kusilvak — have some of the state's and nation's highest unemployment rates among counties or county equivalents. Jobs in these areas are primarily connected to local government and to the support jobs that exist wherever populations cluster, including health care and retail jobs and a certain number of construction and transportation jobs. Unlike the southern parts of the region, the area does not profit substantially from commercial fish harvests.

Interior Region

The Interior Region has a mix of resource industries — large coal and gold mines, for example — and is also home to Denali National Park, which generates a large number of seasonal jobs and a handful of year-round jobs.

Fairbanks, with a borough population of nearly 100,000, depends heavily on the military and the University of Alaska Fairbanks. Fort Wainwright, an Army post, and Eielson Air Force Base are home to 8,500 active duty military and an additional 9,500 dependents. The University of Alaska Fairbanks had a student enrollment of 8,720 in the fall of 2017, 88 percent of whom were undergraduates.

Both the military and the university also create significant demand for goods and services in the community and state. At both the industry and occupational levels, existing demand is similar to the statewide pattern: 1) especially high demand for health care workers; and 2) demand across the rest of the industry and occupational spectrum that's roughly similar to population trends.

Performance Measures Summary

The Department of Labor and Workforce Development's Research and Analysis Section matched information provided by TVEP recipients about the participants who exited a program during the prior state fiscal year 2017 (July 1, 2016 through June 30, 2017) to unemployment insurance wage records to determine employment outcomes.

The performance outcomes are based on the measures in AS 23.15.835(e). This report includes outcomes for these two measures:

1. Percentage of former participants who have a job one year after leaving the training program
2. Median wage* of former participants employed seven to 12 months after leaving the program

For additional context, we have included median wage and the percent employed at any time in the year after exiting training as well as the annualized median wage after exiting.

Institution	% Employed 1 Yr After Exit	% Employed 1-12 Mths After Exit	Median Wage 7-12 Mths After Exit*	Median Wage 1-12 Mths After Exit**	Annualized Med Wage After Exit
Alaska Vocational Technical Center	53.6%	71.6%	\$15,012	\$22,976	\$30,024
Alaska Technical Center, Kotzebue	55.8%	69.3%	\$8,859	\$16,890	\$17,718
Amundsen Educational Center	35.7%	64.3%	\$6,377	\$11,205	\$12,755
Galena Interior Learning Academy	NA	NA	NA	NA	NA
Ilisagvik College	69.5%	83.7%	\$26,107	\$48,103	\$52,214
Northwestern Alaska Career and Technical Center	22.2%	45.3%	\$1,393	\$1,255	\$2,786
Partners for Progress in Delta	49.3%	64.8%	\$9,070	\$12,809	\$18,141
Southwest Alaska Vocational and Education Center	53.9%	69.4%	\$16,956	\$27,330	\$33,913
Yuut Elitnaurviat	51.6%	72.4%	\$4,867	\$7,676	\$9,734
University of Alaska	60.2%	75.6%	\$14,833	\$24,717	\$29,667

*This is the median wage earned over the six-month period after exiting training.

**This is the median wage earned at any point in the year after exiting training.

Notes: The methodology for selecting students has changed from those with an exit date during SFY 2017 to those with an enrollment date during SFY 2017. Employment and earnings outcomes are measured using the Alaska wage record information employers provide each quarter for wage and salary workers. Because these records exclude workers who are self-employed, federal, military, or employed out of state, these figures should be viewed as conservative measures of participant outcomes.

Alaska's Institute of Technology (AVTEC), Seward

The Alaska Vocational Technical Center (AVTEC) is located in Seward in the Gulf Coast Region. As the largest multidisciplinary postsecondary vocational training center in Alaska, AVTEC's mission is to prepare Alaskans with the occupational, technical, and employability skills needed across Alaska's six economic regions.

AVTEC's program development and student placement are tightly connected to employer partners through advisory committees that place students into jobs and ensure AVTEC curriculum contains the skills and knowledge they expect from new hires.

With more than a dozen long-term programs (more than six weeks) and more than 30 short-term programs (less than six weeks) available in SFY 18, AVTEC served more than 1,200 participants who earned 1,486 occupational certifications and industry credentials.

Training Programs

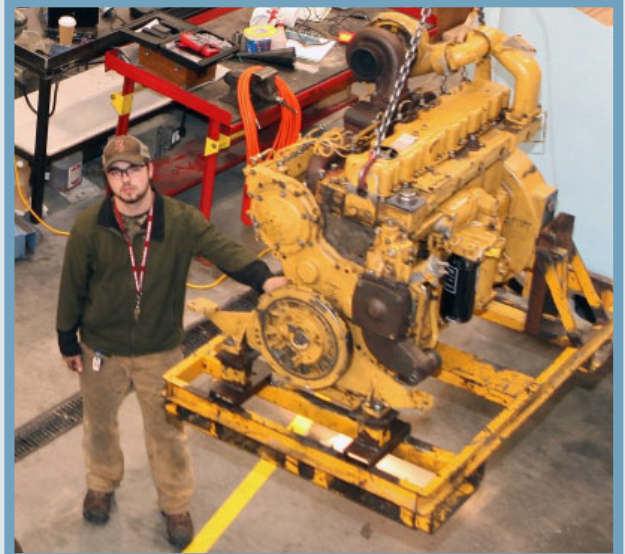
- Business and Office Technology
- Combination Welding
- Construction Technology
- Culinary Arts
- Diesel/Heavy Equipment Technologies
- Industrial Electricity
- Information Technology
- Maritime Training
- Plumbing and Heating
- Refrigeration

Articulation Agreement

University of Alaska Fairbanks Community and Technical College, AAS in Information Technology

SFY 2018 Partners

- Alaska Department of Education and Early Development
- Alaska Energy Authority



Jonathan Godwin in the Diesel Heavy Equipment shop at AVTEC

Success Story: Jonathan Godwin

Diesel/heavy equipment technology student Jonathan Godwin from Anchorage was recently hired by Coeur Alaska as a Mobile Maintenance Mechanic Tech II to work at Kensington Mine in Southeast Alaska. Coeur Alaska had attended AVTEC's spring job fair, where they interviewed applicants for the position.

Twelve of the 14 diesel/heavy equipment graduates from June 2018 were working in a training-related position prior to graduation.

- Alaska Marine Highway System
- Alaska Operators Union Local 302
- Alaska Process Industry Careers Consortium
- Alaska Sealife Center
- Alaska Travel Industry Association
- Bristol Bay Native Corporation
- Calista Corporation
- Catalyst Marine
- Chenega Corporation
- City of Seward
- Coeur Alaska

- ConocoPhillips/Polar Tankers
- Construction Machinery Industrial, LLC
- Cook Inlet Tribal Council
- Crowley Maritime Corporation
- Edison Chouest Offshore
- EXCEL Alaska
- First National Bank
- Foss Maritime
- GCI Hecla Greens Creek Mining
- Holland America Princess
- Kenai Peninsula Economic Development District
- Kinross Gold Corporation
- National Center for Construction Education and Research
- Piledrivers and Divers Union Local 2520
- Plumbers and Pipefitters Local 367
- Port of Anchorage/Anchorage Municipality
- Seward Chamber of Commerce
- Southeast Pilots Association
- Southwest Pilots Association
- United States Coast Guard
- University of Alaska
- U.S. Department of Labor, Office of Apprenticeship

Regional Impact

- With our statewide mission, AVTEC impacts not just our region but all economic regions in Alaska. We served more than 1,200 students in SFY 18, with more than half coming from the Anchorage/Mat-Su and Gulf Coast regions and the rest from the Southwest, Southeast, Northern, and Interior regions. After completing training, students return to their regions' workforces and benefit the area economy by earning more than they did before attending AVTEC.
- AVTEC trains Alaskans for work in the mining, construction, oil and gas, maritime, and health care industries and partners with more than 300 employers across these sectors for placement of AVTEC graduates.
- As the provider of related technical instruction for registered apprenticeships using e-learning technology, AVTEC provides access to instruction, regardless of location, to apprentices from across the state.
- Through a partnership agreement with the City of Seward, AVTEC provides parks and recreation opportunities to the community.

- AVTEC's main dormitory and student service center is a local emergency evacuation center.
- AVTEC provides Adult Basic Education services, GED prep and testing services, English as a Second Language, and test proctoring services to all local residents.
- AVTEC provides banquet and small convention facilities and services to state and local entities.
- AVTEC offers universal enrollment services and gives the public the opportunity to secure a Transportation Worker Identification Credential card and Transportation Security Administration (TSA) pre-check credential.

Capital Improvements

AVTEC made no major capital improvements in SFY 18 and we have no major capital projects planned for SFY 19 — just attending to the growing list of deferred maintenance projects.

SFY 18 Accomplishments

- We created training in vessel maintenance and repair, electrical systems, plumbing and heating, shipyard safety training, refrigeration, construction, and diesel engine repair.
- We reconfigured professional cooking and baking to a culinary arts training program to better meet the needs of Alaska employers.
- We now offer galley chef training, using parts of the culinary arts curriculum and focusing on training shipboard cooks to prepare nutritious foods safely aboard a vessel.
- We increased our direct outreach to high school students by offering a high school distance learning course (for STEM credits in some districts) to students at more than 13 sites.

Looking Ahead

- We plan to reach out to veterans with information about AVTEC as a postsecondary training option and the opportunity to bring

their military experience to the training program for advanced placement.

- We will build relationships and articulation agreements with other regional training centers, school districts, and other postsecondary education providers to increase our collective capacity to provide Alaskans in specific economic regions with workforce training to meet their regions' specific needs.

Alaska Technical Center, Kotzebue

The Alaska Technical Center (ATC) is an adult vocational school supported by the Northwest Arctic Borough School District to meet the Northern Region's vocational and technical training needs. Programs are designed to build Alaska's workforce and meet the needs of employers in high demand fields such as natural resources, health care, education, and technology.

ATC celebrated its 37th graduating class in May 2018.

Training Programs

- ABE/GED
- Advanced Core Driller
- Alaska Food Handler
- Boiler Maintenance
- Certified Nurse's Aide (CNA)
- Commercial Driver Training
- Construction Safety
- Construction Trades Technology
- Core Driller Renewal
- Culinary Arts
- HAZWOPER 8 and 40
- Maniilaq Rural Utility Business Advisor (RUBA) Program Training
- Medical Terminology
- Millwright Maintenance
- MSHA 8 and 24
- New Core Driller
- Process Technology
- RN UA Nursing Program
- Solar Photovoltaic 101

Articulation Agreements

- Northwest Arctic Borough School District
- UAF Chukchi: Dual credit articulation agreement
- University of Alaska Fairbanks: Process Technology, Culinary Arts, Certified Nurse's Aide, and Construction Trades Technology

SFY 18 Partners

- Aqqaluk Trust
- Alaska Department of Labor and Workforce Development

Success Story: Michelle Tickett

Michelle Tickett, a spring 2018 graduate, completed her CNA and medical terminology program with an excellent recommendation from her instructor as well as the Maniilaq Long-Term Care Unit director.

During the clinical rotation, Michelle excelled in her work with patients, residents, and staff. According to one nursing instructor, "She showed much compassion, combined with a high level of nursing skill development." Michelle would often sit and visit with residents when she had time between providing care. She achieved the highest award for graduates while at Alaska Technical Center, maintaining stellar grades and attendance.

While at ATC, Michelle sat for the state nurse's aide exams and passed the written and skills exam to become a state certified nursing aide. Her goal is to continue training to become a registered nurse.

Michelle now works full-time at the Maniilaq in-Patient Acute Care Unit, gaining valuable experience caring for acutely ill patients to prepare herself for nursing school.



- Conoco Phillips
- Kikiktagruk Inupiat Corporation
- Kotzebue Electric Association
- MAJOR Drilling
- Maniilaq Association
- NANA Development Corporation
- NANA Regional Corporation
- NANA Worley Parson
- NMS
- Northwest Arctic Borough
- Red Dog Mine
- RUEN Drilling
- Shell Oil
- Tuuq Drilling

- UAF Chukchi
- UAF Fairbanks
- University of Alaska Anchorage (UAA)

Regional Impact

The Native Youth/Elders Conference, which bridges the needs of Alaska youth with the cultural traditions and history of the Native past, also uses our training center.

Capital Improvements

None are planned.

SFY 18 Accomplishments

- Ten high school students gained enough training and clinical hours to sign up for the state certified nurse's aide exam.
- Three of the millwright maintenance students have found jobs: two at Red Dog Mine and one at Alaska Airlines. Seventeen CNA graduates have earned internships at the local hospital.
- Seventy-three participants earned certifications in the semester-long and year-long programs this year. Another 178 earned certifications in the one-to-four-week courses.
- By the end of June, 25 of the 43 training participants in the three core drillers programs had begun working in the Red Dog Mine and Bornite mine exploration programs.
- We worked with partners to provide short courses in MSHA certification, boiler maintenance and operation, construction safety, and 40 HAZWOPER during this quarter.
- We worked with a NANA Corporation subsid-

iary to host three core drillers helpers courses, where 43 participants gained industry-specific training. Most of those are employed in one of the busiest core drilling seasons for mineral exploration and development in northwest Alaska.

- We hired a new Workforce Innovation and Opportunity Act (WIOA) student support services coordinator.
- We provided three core drillers courses during the spring 2018 semester. Two courses for new core drillers helpers had 30 participants. One advanced core drillers helper course had 13 participants. Many completers have already found jobs at the Red Dog Mine and Bornite Exploration project on the Upper Kobuk River. The NANA subsidiary, Tuuq Drilling, and its partner Ruen Drillers assisted in these core driller programs.
- We provided an intensive three-week CNA course in June, which had nine students.
- Our first solar PV training program has garnered considerable interest. Twenty-two participants have earned Solar PV 101 NAPCEP (North American Board Certified Energy Practitioners) approved credits in this entry-level course, which will serve as a prerequisite for future Solar PV classes.

Looking Ahead

In our millwright maintenance program, we are connecting with the state millwright network to include a veteran millwright maintenance instructor with 40 years of experience in the field and connections on the North Slope as well as at Red Dog Mine. This National Center for Construction Education and Research (NCCER) millwright maintenance program has the potential to fill jobs in both places.

Amundsen Educational Center, Soldotna

Amundsen Educational Center (AEC), formerly New Frontier Vocational Technical Center, is a faith-based nonprofit vocational school in Soldotna, in the Gulf Coast Region on the Kenai Peninsula. Amundsen focuses on training rural Alaskans for entry-level business, construction, and medical office occupations.

Training Programs

- Accounting Clerk
- Advanced Residential Construction
- Computer Information Processor
- General Office Clerk
- Professional Medical Coding
- Residential Construction

Articulation Agreements

Interior Distance Educational Association (IDEA) and Kenai Peninsula College

SFY 2018 Partners

- Aniak Traditional Council
- Association of Village Council Presidents
- Calista Education and Culture
- Career Support and Training Services
- Coastal Villages Regional Fund
- Cook Inlet Tribal Council
- Kenai Peninsula Builders Association
- Kenaitze Indian Tribe

Regional Impact

- Amundsen Educational Center continues to add to the number of homes built on the Kenai Peninsula. Through Building Hope Construction, LLC, we have built 11 homes

in the last 12 years. The homes function as learning labs for our students.

- Our training impact goes beyond the central Kenai Peninsula area. Many of our students return to their home villages and work in construction or related jobs. We have students working in much of western Alaska.

Capital Improvements

Amundsen made no capital improvements in SFY 2018 and has none planned for SFY 2019.

SFY 18 Accomplishments

- Professional Medical Coding was a success. One student passed the difficult national exam on his first try. He recently got a job with a neurosurgeon in Anchorage.
- This year we expanded the number of students taking QuickBooks. Three nonprofit executive directors, one nonprofit bookkeeper, and one church bookkeeper took the class.

Looking Ahead

- We have procured land for future construction projects and have a waiting list of people who would like to build with us.
- We plan to offer home renovation and are considering a program in Anchorage that teaches students this approach rather than new construction. Existing homes all over the state need renovation, and this skill would be high-value in rural areas.

Success Story: Chance Hunter

Chance Hunter of Scammon Bay graduated this spring from our advanced residential construction program, which he completed the prior year.



Chance, covered in drywall.

Chance is outgoing and always up for a challenge. His energy and positive attitude always kept things upbeat during training at the job site.

When Chance returned for a second year of training, he rose to the challenge from our Resident Life director, Stephen Blayney, to put others first and develop leadership qualities on and off the job site.

Chance helped a younger student through the application process for funding. He also traveled to Nicaragua to build homes with Project Hope. The trip helped shape his world view and gave him the opportunity to make a difference using his own skills and gifts.

At the end of training last year, we asked Chance to speak at graduation dinner. No student has ever had the confidence or skills to do this, but Chance agreed immediately



Chance builds homes in Nicaragua.

and gave an inspiring speech to the room full of well-wishers.

Chance now works for Kanakanak Hospital in Dillingham on their maintenance crew. He uses the skills he learned at Amundsen to hang and finish sheetrock, lay carpet, and perform maintenance and other construction throughout the facility.

Galena Interior Learning Academy, Galena

The Galena Interior Learning Academy (GILA) is an accredited ninth to 12th grade vocational boarding school in the Interior Region that also offers postsecondary adult vocational training.

GILA students come from all regions, and many are from villages with few local education options. Galena's rural setting appeals to rural students' lifestyles and allows those from urban areas to benefit from a focused emphasis on the individual. The campus is located on a former U.S. Air Force base and offers modern residential and educational facilities.

GILA's TVEP program is administered by the Alaska Department of Education and Early Development.

Training Programs

GILA offers vocational certification/tech prep in the following programs:

- Alaska Fisheries through UAS (grant related)
- Applied Mechanics: Small Engines, Intro to Automotive Technology, Automotive I through III
- Aviation: Private pilot ground school, private pilot flying
- Construction Trades: Woodworking, Carpentry I and II, Electronics I, Residential Wiring, Welding I and II, Aluminum Welding and Fabrication, Construction Mathematics
- Driver's Education
- Health Science: Anatomy and Physiology, Biology, Chemistry, Health, Human Behavior in Health Care, Introduction to Health Career Professions, Emergency Trauma Training, Math in the Health Care Industry, Medical Terminology, Professionalism in the Health Care Industry
- Media and Information Technology: Journalism, Computer Business Applications, Advanced Computer Business Applications (MOS certification), Digital Photography,

Digital Video

- Natural Resource Management: Forest-Based Biomass, Intro to Sustainable Energy, Natural Resource Conservation and Policy

Articulation Agreements

Dual credit is available through the tech prep program in partnership with University of Alaska Fairbanks Interior Alaska Campus (UAF-IAC). Tech prep allows Galena City School District high school students (at GILA and Sidney Huntington High School) to earn credits toward a certificate or degree by completing classes that UAF-IAC has approved for college credit. Every year, the district and UAF-IAC sign an articulation agreement for each course. Tech prep benefits:

- Students can transfer credits to another university or college, or apply their skills toward immediate entry-level employment.
- The cost is just \$25 per credit instead of \$212 per credit at the university. Some district students have graduated with more than 12 UAF credits for just \$300 instead of \$2,544.

Tech Prep Articulation

Agreements With UAF-IAC	Course#	Credits
Arctic Survival	EMS 257	3
Computer Business Applications	CIOB 150	3
Constructions Mathematics	CTT 106	3
Current Topic in Construction		
Trades: Forest-Based Biomass	CTT 250	3
Digital Photography	CIOB 258	3
Digital Video	CIOB 257	3
Emergency Trauma Training	EMS 152	3
Home Energy Basics	ENVI 120	1
Introduction To Health Professions	HLTH 105	2
Introduction to Sustainable Energy	ENVI 220	3
Natural Resource Conservation		
and Policy	NRM 101	3
Private Pilot Flight School	AVTY 101	2
Private Pilot Ground School	AVTY 100	4
Professional Skills for the Workplace	HLTH 110	2
Residential Carpentry (Core)	CTT 100	3
Small Engines	AUTO 100	1
Welding	WMT 103	3

Success Story

Written by journalism student Emily Tomlinson

Four students attended the ATCEM Alaska Tribal Conference on Environmental Management in Anchorage with natural resource management and sustainable energy teacher Tim Kalke and cultural arts teacher Freda Beasley to learn how to become involved in the career field and becoming advocates for environmental issues in our communities.

Mr. Kalke is also the general manager of SEGA (Sustainable Energy for Galena, Alaska), which manages the biomass project on the GILA campuses used to heat the buildings during the school year.

"My expectation for this trip is to expose the students to the environmental issue going on in the state of Alaska," said Mr. Kalke. "I hope that the students learn and see the opportunities there are in this career field...The students were allowed to come because it is a great opportunity for them to learn about what's going on in their backyards."

Mr. Kalke said he was invited to ATCAM to share the project details and challenges that are being faced with the biomass project in Galena.

During Mr. Kalke presentation of the biomass project he covered the background of the GILA campus and the reasons why we needed to create SEGA.

Before SEGA started, the GILA campus was the former Galena Air Base. When the Air Force left, they gave their remaining fuel to the school, but replacing that fuel would have been expensive.

The Galena biomass energy project was created to provide the GILA campuses with an affordable fuel source after the



Students attend the ATCEM Alaska Tribal Conference on Environmental Management in Anchorage.

fuel left from the Air Force was almost depleted. After doing a comparative analysis, they found that the cheapest and the most convenient for the GILA campuses was to use wood boilers and replace the steam pipes with hot water pipes.

The City of Galena and Loudon Tribal Council came together and formed a partnership called SEGA to develop a wood-based biomass heat project for the GILA campus. The plan was to lower the amount of fuel the GILA campus needed. The biomass project was installed the fall of 2016.

If you look around the GILA campus, you will see the black tar-covered pipes. The pipes are what carries the hot water and heat to each building and returns again to the boilers. perform maintenance and other construction throughout the facility.

SFY 18 Partners

- Alaska Air Carriers Association
- Area Health Education Centers (AHEC)
- AVTEC
- City of Galena
- Donlin Gold
- Doyon Universal Services
- Fairbanks Memorial Services
- Gelvin Professional Training
- Loudon Tribal Council
- Sustainable Energy for Galena, Alaska (SEGA)
- Tanana Chiefs Conference

- UAF
- University of Alaska Southeast (UAS)

Regional Impact

- Many of the regional impacts of the GILA model are important but difficult to quantify, such as exposure to various career and technical education (CTE) courses and offerings, opportunity to earn college credit, and support and education in essential life skills.

- A quantifiable impact is the cost of each UAF credit the student can use as part of his or her continuing higher education training or studies. For an Alaska resident, each 100-200 level course credit is \$212 (UAF 2018/19 rate). During the 2017-2018 school year, 136 GILA students earned 380 college credits. This amounted to \$80,560 in savings for the students, who enter university with credits already under their belts.
- Besides vocational training, our training center provides the community with a venue for dramatic performances, weekly movies, softball games, dances, and athletic competition.
- When school isn't in session, the Bureau of Land Management uses the facilities to prepare for firefighting preparation. Tanana Chiefs Conference also uses the facilities for training purposes.

Capital Improvements

- We completed the Ptarmigan Hall capital improvement project in October 2017. This \$1,894,322 project corrected energy inefficiencies that the heating system improvements could not overcome. These upgrades helped provide a warm and hospitable residential environment for our students.
- On July 1, 2018, after years of grant applications, the district finally received \$7.6 million in state funding to remodel the GILA Headquarters Building into a state-of-the-art math and science facility. This was the district's No. 1 priority in our six-year capital improvement plan. The district plans to begin construction next May with move-in scheduled for the 2020-21 school year.
- During their Aug. 22 meeting, the school board will consider the next iteration of the six-year capital improvement plan. The top proposed project is an energy efficiency upgrade to the aged GILA composite instructional facility. If the board approves, the district plans to apply to the Department of Education and Early Development's Major Maintenance Capital Improvement Project grant program on Sept. 1. The district and Galena are proud of the continuous improvements to our facilities.

SFY 18 Accomplishments

- During the 2017-2018 school year, in addition to continuing Health Occupations Students of America (HOSA) and natural resource management opportunities, the district continued its collaboration with UAF and industry partners to overcome geographical and travel expense challenges and began offering students certified nursing assistant and emergency medical technician (EMT) certifications.
- Under the dual credit articulation agreements with UAF, 136 students earned 380 university credits.
- The CTE classes offered in Galena serve both the boarding school students and the students enrolled in Sidney Huntington High School in Galena.
- One student took a solo flight.
- Two students passed the Federal Aviation Administration's written private pilot license (PPL) exam and the check ride.
- Four students received their Microsoft Office Specialist Word certification.
- Twenty-six students obtained their food worker cards: 17 through the student worker program at the GILA dining hall and nine through the food preparation class.
- Ten students passed the Future Health Professionals knowledge-based skills test and attended Alaska's HOSA conference. One took first place, one took second place, and one took third.
- Two groups of students went to Fairbanks Memorial Hospital and Alaska Native Tribal Health Consortium (ANTHC) in Fairbanks for exposure to various options in the health field. AHEC supported these trips.
- Eighteen GILA/Sidney C. Huntington High School Students and seven Interior Distance Education of Alaska (IDEA) students (while attending the Galena Health Academy) obtained emergency trauma technician certificates.
- Nineteen students passed their Department

of Motor Vehicles permit exam. The challenge is to obtain all the required paperwork from the parents not located near a DMV office.

- Thirteen students took an Alaska fisheries course through UAS, for which they could obtain college credit through a special funding opportunity with UAS.
- One student enrolled in two maritime courses with AVTEC: High school Introduction to Nautical Skills and Basic Training.
- We held the first Behavioral Health Camp in March. Interior AHEC partnered with Gelvin Training and the school district to bring out several mental and behavioral health specialists. Fourteen GILA and SHS students participated, receiving their mental health first aid certifications as well as training to respond to emergency mental health situations, which included self-harm intervention, stress alleviation, and mindfulness exercises.
- AHEC grants and our Project TEAM funding paid to house and feed the presenters. We expect this camp to become an annual opportunity and may grow to include UA credits in the future. The goal is to provide mental health first aid (MHFA) as well as ETT training to our students.

Looking Ahead

During the 2018-2019 school year, we plan to:

- Study, within our aviation program, the feasibility of developing a STEM-based elective called Principles of Flight.
- Study, within our applied mechanics program, the feasibility of an elective called Introduction to Snow Machine Maintenance and Repair, using UAF's syllabus.
- Incorporate, within our construction trades program, Introduction to Hand Tools to Carpentry I, using the UAF syllabus for CTF 102. This includes using UAF tech prep for this course and for Math for Construction Trades.
- Develop, within our health science program, a tech prep agreement with UAF by aligning our Human Behavior in the Health Care Industry course with UAF's corresponding HLTH F106 syllabus. The intent is to host an annual behavioral health camp, with the goal of providing MHFA and ETT training to our students.
- Study, within our media and information technology program, the feasibility of a tech prep agreement to align our Microsoft Office specialist certification course with the corresponding course at UAF.

Ilisaġvik College, Utqiaġvik

Ilisaġvik College, located in the North Slope Borough of the Northern Region, is a two-year tribal college that offers postsecondary academic, vocational, and technical education while promoting Inupiat culture, language, values, and traditions.

Ilisaġvik was founded to serve the residents of the North Slope Borough, America's largest and most northern municipality, and achieved accreditation from the Northwest Commission on Colleges and Universities in 2003. It is the first and only federally recognized tribal college in Alaska.

Training Programs

- Allied Health
- Business
- Carpentry
- Construction Trades Tech
- Drivers Education
- Electrical
- Health
- Heavy Equipment Operations/Commercial Driver's License
- Humanities–Allied Health
- Industrial
- Industrial Safety
- Maritime
- Math for Electricians
- Psychology–Allied Health
- Welding Materials Tech
- Workforce Development
- Utilities

Articulation Agreements

North Slope Borough School District and Hydaburg School District

SFY 2018 Partners

- Arctic Slope Regional Corporation
- Arctic Slope Native Association
- Arctic Women In Crisis
- ASRC Construction Holding Company
- Association of Village Council Presidents
- Atqasuk Corporation
- Barrow Utilities and Electric Cooperative

Success Story: George Taalak

George Taalak is a local elder who was unemployed and came to Ilisaġvik College to get his commercial driver's license and heavy equipment operations endorsement. Despite being placed on the waiting list, George was determined. He sought out and used our student support services such as transportation, registration, and financial aid assistance.

George persisted and earned his CDL Class B and his Ilisaġvik College Heavy Equipment Endorsement. After completing his last course, he called to let us know that he was happily employed doing the job he wanted: operating heavy equipment for Ukpeaġvik Iñupiat Corporation.

- Incorporated
- City of Kaktovik
- ConocoPhillips
- Coordinated Youth Services
- Hiland Mountain Correctional Center
- Iñupiat Heritage Learning Center
- Kuukpik Corporation
- Metlakatla Indian Corporation
- Napa
- Nome Utilities
- Northern Lights Restaurant
- North Slope Borough Fire Department
- North Slope Borough Health Department
- North Slope Borough Human Resources
- North Slope Borough Mayor's Office
- North Slope Borough Public Works
- North Slope Borough Planning
- North Slope Borough Risk Management
- North Slope Borough Sanitation
- North Slope Borough School District
- North Slope Borough Search and Rescue
- North Slope Borough Shipping and Receiving
- SKW Eskimos
- Tagiugmiullu Nunamiullu Housing Authority
- Tikigak Corporation
- Tikigaq/Conam
- Top of the World Hotel
- Tuzzy Library
- UIC Science
- UIC Umiaq
- Ukpeaġvik Iñupiat Corporation
- Ukpeaġvik Iñupiat Corporation (UIC) Real Estate
- Ukpeaġvik Iñupiat Corporation Sand and Gravel
- WH Pacific, Inc.

Regional Impact

- Our growing CDL program provided local employers with a sudden influx of qualified employees. Working directly with local employers, we created courses that met industry needs, they identified and encouraged employees to attend, and we helped fully license them locally. Everything required was done in Utqiagvik: DOT&PF physicals, permitting, road exams, and DMV-issued Class B CDL licenses.



Ilisaġvik students in spring 2018.

- We use TVEP funding for nearly every course. We share costs with our partners for travel, lodging, per diem, training space, partner-provided resources, training materials, contractor costs, and/or student support. This helps our TVEP funds go even further.
- We teach our industrial safety series (HAZWOPER, HAZWOPER Refresher, Naval Service Training Command (NTSC), and first Aid/CPR w/AED) in every village every year. An increased percentage of village service employees receive necessarily training without having to limit or shut down services (water treatment, municipal services, and emergency responders).
- Our campus is a community pillar where we host cultural activities, all-ages summer camps, Cooperative Extension events, corporate partnership events, and open exploratory vocational workshops. We also allow public use of our dorms and cafeteria, and we have tourists visit our cultural artifacts throughout the year.

Capital Improvements

We had no capital improvement projects this fiscal year and no specific allocations for SFY 2019.

SFY 2018 Accomplishments

- In direct response to local industry request, we will produce our first journey-level Building Energy Retrofit Technician (BERT) this October through our apprenticeship sponsorship.
- CDL participation grew 300 percent.
- We sustained 40-plus partnerships and shared resources that support local training needs.
- High school participation in driver education and permits grew.
- We sponsored the Building Energy Retrofit Technician Apprenticeship.
- We expanded course offerings with our Department of Corrections partners.

Looking Ahead

Our emphasis for SFY 19 is supporting unrestricted village driver's licensing, as a driver's license is a common requirement for rural drivers' employment. We plan to strengthen our vocational trades programs, apprenticeship opportunities, and our heavy equipment operations/CDL program, and to create a building maintenance tech program.

Northwestern Alaska Career and Technical Center, Nome

The Northwestern Alaska Career and Technical Center (NACTEC) is in the Northern Region and is part of the Nome Census Area. This regional vocational learning center, which is a joint venture between the Bering Strait School District and Nome Public Schools, is dedicated to helping students prepare for the world beyond high school.

The training center's mission and primary usage is vocational training combined with residential life skills training. The facility is also rented out for related education and training and is a backup emergency shelter.

Training Programs

- Allied Health: Certified Nurse Assistant, Health Aide Pre-Session, Emergency Trauma Training, and Introduction to Health Care Careers
- Construction: NCCER Core and Residential I Construction, Heavy Equipment, Shielded Metal, Oxy-Fuel, and Gas Arc Welding
- Education: AVTEC and Alaska Technical Center Transition's programs
- Hospitality and Tourism: Business/Marketing/Entrepreneurship, Culinary Arts, and Food Service
- Seafood Harvesting and Processing: Arctic Survival, Fisheries and Seafood Industries, Introduction to Maritime Careers, and Outdoor Leadership/Guiding
- Transportation: Aviation Airframe and Powerplant Mechanic, Automotive Maintenance, Small Engine Repair, ATV/Snowmachine Repair, and Driver Education

Articulation Agreement

University of Alaska Northwest Campus

SFY 2018 Partners

- Alaska Department of Education and Early Development
- Alaska Division of Vocational Rehabilitation
- Alaska National Insurance Company
- Alaska Process Industry Careers Consortium
- Alaska Technical Center (ATC)
- Arctic Native Brotherhood Charitable Trust
- AVTEC
- Bering Straits Native Corporation
- Bering Strait School District (BSSD)
- City of Nome
- Graphite One Resources
- Kawerak, Inc.
- Nome Chamber of Commerce
- Nome Eskimo Community
- Nome One Stop Job Center
- Nome Public Schools
- Nome Youth Facility
- Northwest Area Health Education Center
- Norton Sound Economic Development Corporation
- Norton Sound Health Corporation
- Pollock Conservation Cooperative
- Saltchuk Partners
- Sitnasuak Native Corporation
- UAF Northwest Campus
- Wells Fargo

Regional Impact

- As a state-certified noncommercial driving school and DMV-approved third party Class D road examiner, NACTEC provides road examination services beyond the limited capacity available one day a week through the Nome DMV office. We licensed 48 new drivers in SFY 18.
- As a U.S. Coast Guard training site in partnership with AVTEC's Maritime Department, we received USCG approval for City of Nome pool and NACTEC classroom training sites. Our preapproval for 15 maritime training courses expanded opportunities for



Above, NACTEC heavy equipment operators train with City of Nome Maintenance on a loader, grader, and snow removal trucks. At right, Aaron Burmeister of Turnet Industries discusses the Bering Strait area's heavy equipment operator jobs in NACTEC's motion-based heavy equipment simulator center. In partnership with Kawerak, Inc, NACTEC delivered two new adult HEO training programs in April and May 2018.



Seward and Nome-based maritime training.

- NACTEC training courses are sequenced with career exploratory training programs in early high school leading into certified programs such as NCCER. As one example, a Koyuk senior completed NACTEC's four-week construction training programs in 2017 and 2018, was connected with Bering Straits Regional Housing Authority, and got a job right after the June 2018 training ended. The student moved from Koyuk to Nome and began building houses on St. Lawrence Island.
- All high school students visit the Nome One Stop Job Center and, with the help of an employment security specialist, enroll in the Alaska Labor Exchange System, learn how to search for jobs, and better market themselves for employment opportunities.
- The NACTEC House, our student dormitory,

is a local emergency planning committee location for housing residents displaced in a natural disaster or other emergency. Our dormitory also hosts education-related meetings for counselors, teachers, and administrators with an array of Nome-based partner organizations.

- Kawerak, Inc. and the school district have partnered to host Early Childhood Education training each year at NACTEC facilities. Our facilities have also been used for school board meetings and for Boy Scout and Girl Scout meetings where we provided arctic survival and boating skills training.

Capital Improvements

We had no capital improvement projects this fiscal year and we have none planned for SFY 19.

SFY 18 Accomplishments

- NACTEC delivered an Alaska Technical Center “ATC Transitions” program that was built out of the success of the AVTEC Transitions program delivered in fiscal years 2016, 2017, and 2018 that had students continuing on to AVTEC each year.
- New in SFY 2018, we partnered with Kawerak, Inc., to deliver a pair of week-long heavy equipment operator programs on NACTEC’s motion-based simulators, with support from the Department of Transportation and Public Facilities, City of Nome Maintenance, Alaska Gold, and Turnet Industries. We selected 15 trainees, giving preference to those from Elim, Shaktoolik, and St. Michael, which all had 2018 summer construction projects.

We were able to follow up with 14 of the 15 trainees within 90 days of completing training. Of those, five were already employed, three found seasonal employment as a result of the training, three secured seasonal employment in the construction industry, and two were awaiting barge arrival to begin construction-related work. Before training, average earnings were \$18.30 per hour. Trainees reported their average wage more than doubled after the training, to \$42.16 per hour. (See the photos on the previous page.)

- We partnered with AVTEC’s Maritime Department to deliver a first-ever basic training/ nautical skills and basic shipboard culinary training in Nome in December 2017. A basic firefighter training component followed in April 2018 in Seward, which led to four U.S. Coast Guard basic training endorsements.
- Through Special Education Transition Camps, NACTEC served 32 students of the Bering Strait School District and Nome Public Schools with life skills transitioning services programming.
- We developed a new driver education training program for youth in juvenile detention centers to help them obtain instructional permits via an on-site virtual driver training

unit and NACTEC instruction.

- Our driver education program remains in high demand, and we served and certified a record number of trainees. This included 53 students who gained instructional permits, 48 new licensed drivers, and 24 village students who obtained state IDs with our assistance.
- Our students earned 163 American Red Cross certifications (first aid, CPR, and AED), 84 state food worker cards, 16 NCCER construction training certifications, four ETT certifications, and two certified nursing assistant certifications.

Looking Ahead

- Heavy equipment operator training: With eight heavy equipment simulators on full motion-based platforms, we will use Simformotion to create a 360-degree viewing area with a virtual reality platform. A Simformotion technical support representative will work with us in fall 2018 to install our first virtual reality platform on a hydraulic excavator simulator.
- Wildland firefighter training: New to NACTEC in SFY 19, this training will be held near the end of the school year for 18-year-old graduates. We will also offer it as a Nome community course for adults through a UAF Northwest Campus partnership.
- We will deliver a new Ilisaġvik College transitions program in SFY 19. NACTEC staff help village students navigate the challenge of leaving the region and explore one of three postsecondary TVEP-supported institutions in Kotzebue, Seward, or Utqiagvik.
- We will develop an aviation ground school program to complement our airframe and powerplant mechanic focus as students rebuild a 1962 Piper Colt.
- NACTEC is prepared to meet emerging industry training needs in the Seward Peninsula for graphite mining and a deep draft port in Nome.

Partners for Progress in Delta, Delta Junction

Partners for Progress in Delta, Inc. (PPD) is a 501(c)(3) nonprofit committed to building Alaska's workforce through career advancement education and training for high school students and adults.

Recognized as a Regional Training Center in Alaska since 2008, PPD operates jointly with the Delta/Greely School District and the Delta Career Advancement Center in Delta Junction. Summer academies, custom and special topic classes, certification opportunities, and degree core requirement classes are offered through the organization's partners.

Partners for Progress in Delta, Inc. works directly with partners who provide training credits or certified training to give military personnel/veterans the opportunity to get credit for prior service and learning, whenever applicable.

Training Programs

High School

- Auto CAD I and II
- Construction Trades I and II
- Intro to Construction Trades
- Metals I, II, and III
- Small Engines

Adult Programs

- American Sign Language
- Beginning Auto CAD
- Digital Aurora Photography
- Electrical Preapprenticeship
- Filing and Records Management
- First Aid/CPR/AED Certification
- Food Manager Certification
- Fundamentals of Oral Communication
- Intro to Addictive Processes
- Medical Terminology
- Metal Fabrication
- Personal Awareness and Growth
- Pesticide Certification Training
- Phlebotomy
- Private Pilot Ground School
- Professional Skills for the Job Hunt
- Russian IA

- Welding I
- Wildlife Photography
- Writing 213

Articulation Agreements

We have a Memorandum of Agreement with UAF, CTC, and Delta/Greely School District that outlines dual credit opportunities for high school students taking courses in the following targeted areas:

- Occupational endorsement pathway in welding
- Occupational endorsements, certificates, and associate degrees in applied business and accounting
- Occupational endorsements, certificates, and associate degrees in allied health
- Occupational endorsements and certifications important for industry marketability
- Core requirement classes as appropriate

SFY 18 Training Partners

- Alaska Operating Engineers and Employees Training Trust
- Alaska Works Partnership
- Delta/Greely School District
- UAF Community and Technical College
- UAF Cooperative Extension

Regional Impact

- We depend on TVEP for our operation and work with local businesses and vendors to distribute as much of the funding regionally as possible.
- We spend nearly the entire PPD budget in the Interior, and approximately 50 percent supports Delta-area vendors and services.
- We use TVEP to pay 50 percent of the cost of operating the Delta Career Advancement Center.
- Approximately a third of the funding supports

hands-on training leading to certifications in first Aid/CPR, OSHA 10, MSHA, and the North Slope Training Card, as well as access to apprenticeships.

- Partners support tuition-offset vouchers for residents taking university classes as an incentive to take classes locally. Popular university programs include the certified nurse's aide program, applied business, and welding.
- In addition to training, the training center has been used to help local Future Farmers of America (FFA) and 4-H chapters stay active with monthly meetings.
- We provide classroom space to the local public health nurse to provide community classes on opioid addiction.
- We also provide space for test proctoring and college placement testing for students and for the Bureau of Land Management to use for issuing subsistence permits to the community.

Capital Improvements

We are outgrowing our facility, and we received capital funds a few years ago to plan a new facility. We have drawn up 100 percent of the plans for a new building on the adjacent property (28 acres), but we have no further funding to begin construction. We are looking into holding classes at other locations in SFY 19 due to lack of space.

SFY 18 Accomplishments

- Our largest program is the annual three-week Entry Level Heavy Equipment Operator and Mechanic Academy. The 13th annual academy, held June 2018 with 16 students, was our largest yet, with students coming from Delta Junction, Fairbanks, and the surrounding areas. All students took a one-week required safety training program before breaking off to learn operating or mechanics.

This program's success is due in part to the



Local student and DHS graduate Kirstin Porter became the first high school student to complete an occupational endorsement in welding through the Delta Career Advancement Center.

Alaska Operating Engineers and Employees Training Trust recognizing it as a preapprenticeship training for direct indenture into the Operating Engineers 302. We have provided this training to more than 150 people, with many earning apprenticeships, going to UAF, or getting jobs with local businesses.

- We provided a phlebotomy class during the spring semester with the help of partners UAF, CTC, and local clinics. Four students completed the class and 100 hours of clinic time.
- Partner Alaska Works provided a one-week electrical preapprenticeship where students learned basic electrical theory, electrical code, blueprints, and tool safety. Students then built a fully functional robot lamp.
- We are working with the local military base to provide necessary training. In June 2018, we offered a one-week Security+ class, with 28 students attending and passing the certification test. More students already had jobs but needed this certification to keep them or to get promoted. Two local students found jobs due to this course.

- Once again, a high school construction trades student was selected for direct indenture into the International Brotherhood of Electrical Workers, or IBEW.
- More than 50 community members attended the annual Extension Week offered by partner UAF Cooperative Extension.
- We hosted Career Pathways Q&A in the fall and spring, giving high school students and the community the opportunity to learn more about continuing education opportunities, apprenticeships, dual credit and tech prep, student services, credit for experiential learning, resumes, dressing for success, interviewing, and much more.

Looking Ahead

The Delta Career Advancement Center will bring more technology and trade programs and courses that will lead to a certification or apprenticeship opportunity. We also plan to offer more workshops for those who want to learn but do not need the college credits. Classes would include Construction Project Management, MSHA, OSHA, First Aid/CPR, Fall Protection, CompTia Security+, A+, Network+, American Sign Language, and more.

Southwest Alaska Vocational and Education Center (SAVEC), King Salmon

The Southwest Alaska Vocational and Education Center (SAVEC) is a 501(c)(3) organization located in the Southwest Region on the former Air Force base in King Salmon. The center provides career and workforce development training to Bristol Bay residents and rural residents from around the state.

SAVEC is governed by an eight-member board of directors that includes representation from all of the major regional organizations in Bristol Bay. Its mission is "to promote, coordinate, and provide high quality training and education to residents of Southwest Alaska."

The center is equipped with distance learning capabilities and considered one of the most advanced classroom technology centers in the state, utilizing Smart Board Technology, audio conferencing, video conferencing, and wireless Internet throughout the facility.

Training Programs

- Boiler Maintenance and Repair
- CDL Written Test Preparation
- Commercial Fisheries Net Bench Making
- Confined Space Entry
- CPR/AED/First Aid
- Entrepreneurial Skills: Quilting
- Entrepreneurial Skills: Skin Sewing Hats
- Entrepreneurial Skills: Skin Sewing Mittens
- Forklift Certification
- HAZWOPER 8-Hour Refresher
- HAZWOPER 40-Hour
- Home Energy: Basic Renewable Energy
- NCCER Core Curriculum: Nine Modules
- NCCER Heavy Equipment Careers Exploration
- Office Skills: Intermediate Excel
- Office Skills: Microsoft Access
- Office Skills: Microsoft Office Suite
- Operator of Uninspected Passenger Vessel
- Refrigerated Sea Water Operator
- Residential Heating Control
- Restricted to Western Rivers
- Soil Management
- TABE Testing

- Traffic Flagger
- USCG Accepted Masters Up to 100 Gross Ton

Articulation Agreement

Bristol Bay Christian Learning Center, Bristol Bay School District, Lake and Peninsula School District, and Southwest Region School District

SFY 18 Partners

- Alaska General Seafoods
- Bristol Bay Area Health Corporation
- Bristol Bay Borough
- Bristol Bay Economic Development Corporation (BBEDC)
- Bristol Bay Housing Authority
- Bristol Bay Native Association
- Bristol Bay Native Corporation
- Lake and Peninsula Borough
- Leader Creek Fisheries
- Silver Bay Seafoods
- UAF/Bristol Bay Campus

Regional Impact

- We help students fill out job applications and assist local employers with advertising for job openings and posting jobs in SAVEC bulletin boards.
- Incumbent workers earn job skills/certifications in CDL written prep and in Microsoft Office, including Word and Excel. Small business owners and commercial fishermen can all use the basic office skills.
- We promote high quality workforce training through partnerships with local businesses and industries.
- We promote entrepreneurship skills by providing classes that cross train for small business owners and commercial fishermen, such as bench making for hanging nets as

Success Story: 2018 HAZWOPER completers

Erik Somers works for Bristol Bay Area Health Corporation.

Guy Groat Jr. is maintenance foreman and **Allan Aspelund Jr.** is a maintenance technician for Paugvik Inc. in Naknek.

Jaxon Wassillie is a plant operator for Naknek Electric Association in Naknek.

Kim Parker was hired in May by Knik Construction and then by Quality Asphalt Paving in Dillingham. She is headed to Center for Employment Education in January 2019 for training to get her CDL. She says the HAZWOPER 40-hour certification on her resume opened up opportunities.

Lloyd Grindle works as an engineer for heavy and civil construction company Adesco and is a commercial fisherman in Bristol Bay.

Rich Forhofer is a wastewater technician and **Michael Peters** is a heavy equipment operator for Bristol Bay Borough Public Works Department.



Ronnie Phillips is a heavy equipment operator and **Rojelio Mejorada** both work in construction at LMI Equipment in Naknek.

(We could not reach Eric Tallekpalek or Tara Balluta to verify employment related to training.)

a follow up for net hanging. Commercial fishermen pay people to hang their salmon nets every year, so this can be lucrative.

- The classes on fur sewing mittens, fur sewing hats, and basic quilting have helped people learn the skills necessary to sell their crafts.
- SAVEC's facilities are also used for:
 - ◇ Housing for Pen Air interns
 - ◇ Office space rental for SAVEC partner organizations Bristol Bay Housing Authority and UAF Bristol Bay Campus as well as SAFE, Bristol Bay Chamber of Commerce, and Alaska Peninsula Corporation. Space is available for rent pending approval from the U.S. Air Force Base.
 - ◇ Rental space for board of director meetings, Katmai National Park Service orientation, and Department of Natural Resources Advisory Resource Development Council meetings
 - ◇ Bristol Bay Chamber of Commerce board meetings every other month
 - ◇ BBEDC Business of Fish Meeting
 - ◇ Teleconferences: Calling in for Bristol Bay Campus board meeting, BBNA prisoner

re-entry program, Veterans Administration tribal veterans monthly teleconference, and Business Education Compact meeting

- ◇ Free public access to two library computers and rentals of our computer lab, which has 12 computers and an instructor computer
- ◇ Potlucks with business partners and the community
- ◇ Dorm room rentals by member organizations (15 double occupancy rooms with twin beds and two instructor rooms with queen beds)
- ◇ Rental of a 15-passenger van
- ◇ Classroom rentals by Katmai National Park Service, Department of Natural Resources, Bristol Bay Housing Authority, University of Alaska, Bristol Bay Borough, and Bristol Bay Chamber of Commerce
- ◇ Scaffold rental
- ◇ Proctoring exams for college students, including UAF students, National Park Service employees, National Pesticide Management, Food Service Worker, Mariner Learning System USCG Captains Exams, and Test of Adult Basic Education (TABE)

Capital Improvements

We plan to repair/replace the roof in SFY 2019 due to interior water damage. We have also planned energy efficiency upgrades that include LED lighting.

SFY 18 Accomplishments

- Bristol Bay Economic Development Corporation has a grant for CDQ residents to get refrigerated sea water (RSW) units, but they must first attend the BBEDC RSW operator training at SAVEC. Once students complete this class, they often want to take the RSW troubleshooting and repair training as a follow-up the next year.
- We report all trainings hosted at SAVEC for TVEP. This was the first year we taught the entire NCCER core curriculum during one training session. Lake and Peninsula School District sent one high school student each from Chignik Lake and Newhalen. Southwest Region School District sent three students from New Stuyahok. Nine adults came from other regional villages, including Levelock, Nondalton, Ekwok, Manokotak, and Naknek.

Looking Ahead

- We will continue to partner with employers to provide training that fits their needs.
- Construction projects coming to the area include a five-year U.S. Air Force demolition and/or remodel on the King Salmon Divert Air Field Base, South Naknek Airport runway improvement, King Salmon Airport Runway Resurface, and Alaska Peninsula Highway Bridge Replacements.
- We will provide training in USCG-accepted captains licensing 100 ton or Operator of Uninspected Passenger Vehicles (OUPV).
- We will train guides to integrate local tours with buses or walking tours.

Yuut Elitnaurviat, Bethel

Yuut Elitnaurviat in Bethel is a 501(c)(3) corporation that provides training and education for the Yukon-Kuskokwim Delta in the Southwest Region. Training programs range from adult basic education and career guidance to construction, driver education (including mining and commercial driving programs), health care, and public safety.

The Yuut Regional Vocational Campus consists of two 22-bed dormitories, a 68-bed dormitory, a construction trades shop, and a 20,000 square-foot state-of-the-art Technical Education and Support Services Building.

Training Programs

Long-Term Programs

- Aircraft Maintenance Technician Program
- Arc Welding and Basic Layout
- Commercial Driver License (CDL) Training
- General Steel Welding and Fabrication Techniques
- Marine Aluminum Welding and Fabrication Techniques
- Nurse Aide Training
- Pipe Welding
- Residential Maintenance and Construction Certificate Program
- Rural Facility Maintenance Technician Certificate Program
- Structural Welding and Fabrication Techniques
- Village Police Officer (VPO)/Tribal Police Officer (TPO) Academy
- Welding Safety and Theory

Standalone Short-Term Programs

- Advanced Village Police Officer (VPO)/Tribal Police Officer (TPO) Academy
- Boiler Troubleshooting and Burner Repair
- Introduction to Welding and Fabrication
- National Center for Construction Education and Research Instructor Certification Training Program
- Personal Care Attendant to Nurse Aide Bridge
- Personal Care Attendant Training
- QuickBooks Essentials
- Specialty Equipment Welding and Design
- Toyo Installation, Troubleshooting, Repair
- Wind Turbine Technician Assistant

High School Programs

- Kuskokwim Learning Academy
- Lower Kuskokwim School District Ready Programs: Modified boarding school for academically advanced village students with College Ready and Career Pathway focus
- Plus Youth Programs
- Summer Alaska Native Science and Engineering Program (ANSEP) Wildlife Biology Camp
- Summer Ready Camps: Art, Science, Technology, Engineering, and Math (STEM), Welding, Fabrication and Engineering, or Advanced Math

Articulation Agreement

Lower Kuskokwim School District

SFY 18 Partners

- Alaska Department of Public Safety
- Alaska National Guard
- Alaska Native Science and Engineering Program
- Alaska Native Tribal Health Consortium
- Association of Village Council Presidents
- Association of Village Council Presidents, Regional Housing Authority
- Bethel Community Services Foundation
- Calista Corporation
- City of Bethel
- Construction Education Foundation, Inc.
- Donlin Gold
- Lower Kuskokwim School District
- Orutsararmuit Native Council
- University of Alaska Fairbanks, Kuskokwim Campus
- Yukon-Kuskokwim Health Corporation

Regional Impact

- TVEP allows Yuut Elitnaurviat, and consequently our region, to combat the high cost of facility operation in rural communities.
- We use TVEP funds to keep our infrastructure

Success Story: Devin Hoffman

Devin Hoffman is now an electrical apprentice and employee of the Yukon-Kuskokwim Health Corporation. He says:

"My life has changed in a couple of simple yet significant ways. I have had to mature, due to the tough individuals I have worked with. I am more confident in myself, knowing the work I've put in and all that I've learned. But most importantly, I'm just thankful for the job I have and that I have the opportunity to further myself in this field. And I am even more thankful for the people I've had the chance to work with and learn from."



operational during the year. This allows us to supplement our overhead costs and gives our partner organizations an affordable option for training in our region.

- There are numerous barriers to training success for students in our region. Having a local option that is aware of the different cultural makeup of Southwestern Alaska and is a short flight from home is a proven model for our people's success.
- We offer direct-to-work training with our local partner organizations, and in the case of our commercial driving program, we can have a student go from unemployed to holding a nationally recognized and desired credential in weeks.
- We offered emergency housing for students when the Kilbuck School burned down in 2015, and have since become the new home of the Kuskokwim Learning Academy, or KLA, which is an alternative boarding school in the Lower Kuskokwim School District.
- Our campus is part of the City of Bethel's emergency preparedness plan, as we are on high ground and have a great deal of space available. Our facility has a full commercial kitchen and is available for rent to organizations that share our workforce development and training goals for public meetings, trainings, conferences, and community gatherings.

Capital Improvements

- We began building a 4,800 square foot shop

in fall 2018. We will relocate our welding and construction trades labs to this shop, leaving the existing shop for KLA construction class and lab use. The shop will include a secure tool storage area. As a student project, we plan to build a storage area for dry goods so we can order a year's worth of consumables on the barge at a reduced rate.

- The build-out and renovation of our Technical Education and Support Services building (TESS) will include adding classroom and instructional services to the southwest end of the existing building. The first floor will include eight new classrooms, and the second floor will be open for future instructional space. This project also includes partially renovating the second and third floors for our use so we can dedicate the first floor to KLA.
- We are planning a new 48-student residential dormitory, which will be located by the Kuskokwim and Rasmuson dorms on campus. This will be a two-story building that houses girls and boys on separate floors with a dorm parent on each floor. Space planning includes gender-specific common areas, laundry, and restrooms/bathing areas. The dorm will be a short walk from the back entrance of the TESS expansion.
- We are looking into a standalone Dental Health Aide Therapy Clinic adjacent to the Health Care Annex. The current clinic needs extensive renovation to meet future standards, and a more cost-effective option might be a new modular design. The clinic will house six operatories, waiting and reception areas, a classroom area, and all other

elements of a professional dental clinic.

SFY 18 Accomplishments

- We held two 60-day welding certificate programs, one in marine and aluminum welding and one in steel fabrication.
- We held an 11-week rural facility maintenance certificate program.
- We trained six Class A commercial drivers and 25 certified nurse's aides.
- We offered the only village police officer/tribal police officer academy in Alaska.

Looking Ahead

- We are still working on housing the Kuskokwim Learning Academy on our campus permanently. We will build another dorm for the KLA students, build a second construction trades shop to accommodate both our adult and high school programs, and expand our main TESS building to accommodate adult students and KLA. This partnership has proven fruitful and we look forward to transitioning students directly from the work-based learning curriculum of KLA into our adult workforce development programs.
- We have more than 200 days of construction trades training scheduled in SFY 19 through our partnership with Association of Village Council Presidents' Employment, Eligibility, and Training, Transportation, and Tribal Workforce Development departments. We will also offer six-week intensives for certified nurse's aides and commercial driving during the same period.
- We hope to receive Federal Aviation Administration approval for our 18-month aircraft maintenance technician program in October 2018. Students who complete this program will receive a federally recognized certification in either airframe, powerplant, or both.

University of Alaska

The University of Alaska (UA) is a highly productive and comprehensive provider of workforce training in Alaska. TVEP will continue to be an important way for UA to develop the workforce of tomorrow, today, helping the state reach the goal of 65 percent of Alaskans with postsecondary education and training to meet our workforce needs by 2025.

For more on the University of Alaska Vocational Education Programs, visit: <http://www.alaska.edu/research/wp/>

Articulation Agreements

Postsecondary opportunities for secondary students are coordinated by members of the University of Alaska Transition Coalition (UATC), who represent each campus and serve the UATC mission: "To create and foster strategies for all Alaska's secondary students to have local access to and opportunities for career and technical

education resulting in an engaged and highly qualified workforce."

<http://www.alaska.edu/research/wp/CTE/uatc/>.

Capital Improvements



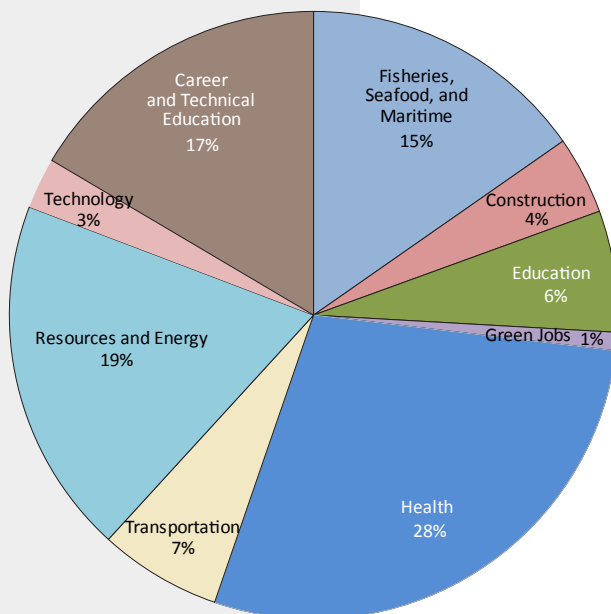
UNIVERSITY
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UA had no capital improvements in SFY 18. UA primarily uses TVEP funding for specific workforce development education and training program needs, including industry-specific

training, on-the-job training, and instructional or classroom job-linked training. The funding most often goes to instructional, contractual, and equipment costs.

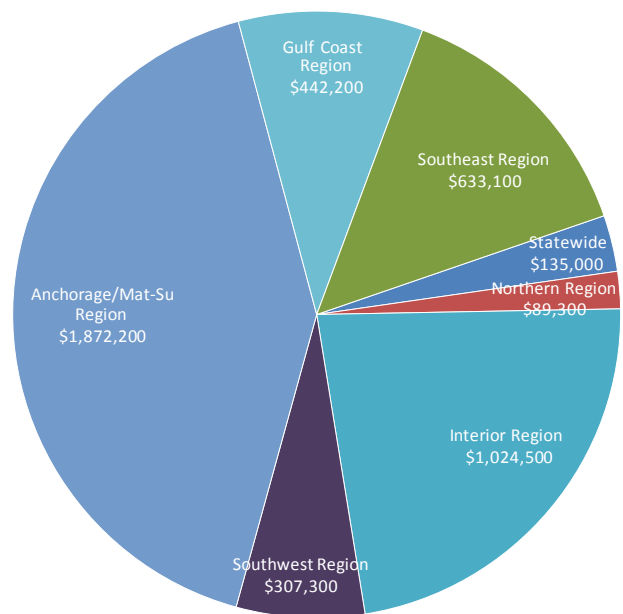
Training Programs

TVEP Supports High Priority Industries
SFY 2018



Regional Impact

TVEP Supports All Regions
SFY 2018



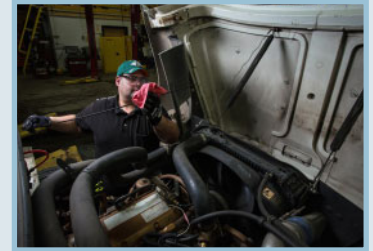
UAA Success Stories: Savannah Sagainiq Jones and Giancarlo Malone

In December 2017, Kotzebue's **Jones** became one of the region's newest registered nurses, having earned her associate degree via a modified distance program from UAA. When asked about the importance of having trained health professionals with a rural background, she noted that patients get to see



a familiar face providing care, and that getting to go back home to practice helps when getting the education.

A first-generation Italian-American and first-year student, **Malone** enrolled in the program shortly after moving from New York looking for better opportunities in Alaska. He doesn't see himself moving back to New York. "I wanted to see intellectual smarts in a blue-collar world, and I feel Alaska has that," he said.



For SFY 19, the UAS Ketchikan campus will add a permanent water source via a tank, piping, and a pump to support fire training required for the U.S. Coast Guard-approved fire classes that an average of 60 students attend each year. This will replace the current arrangement with the North Tongass Volunteer Fire Department, who has provided their trucks to supply water during training drills.

- ◇ Browse available programs at the University of Alaska that lead to desired careers

SFY 18 Accomplishments

UA Statewide

- Three fisheries, seafood, and maritime initiative working groups collaborated with maritime industry partner Maritime Works to develop online resources and flyers to expand awareness of 23 priority occupations identified in the Alaska Maritime Workforce Development Plan. The resources include education requirements, what training is available around the state, and employment information on each occupation: (<https://maritimeworks.org/careers/>).
- UA began using Career Coach (<https://alaska.emsicc.com/>) in November 2017. It is based on current labor market information to help job seekers:
 - ◇ Identify careers based on their interests
 - ◇ Browse careers for wage ranges, job opportunities, and training requirements
- ◇ Browse available programs at the University of Alaska that lead to desired careers

UA Anchorage

- For the past two years, the Alaska Area Health Consortium (AHEC) has partnered with the Alaska Native Science and Engineering Program (ANSEP) to implement a health science strand exposing 313 middle and high school students to health career opportunities and pathways in Alaska. Of those students, 49 percent said they were likely to pursue a career in health care, 70 percent reported the health science academy/lab increased or impacted their interest in health care careers, and 98 percent reported the activities increased their knowledge about health care careers.
- In fall 2017, the College of Education placed approximately 400 students in rural school settings throughout the state for observations, practicums, and internships. TVEP funds are supporting a rural student access liaison/instructor to help increase the numbers of graduates, cohorts served in rural districts, students providing online tutoring for rural districts, and rural partnerships.
- The first College of Health student cohort to complete the AAS degree in Diagnostic Medical Sonography (DMS), also known as ultrasound, are now 100 percent employed. The 1,600 hours of clinical rotations at

prospective job sites have proven to be a successful job placement strategy. Another factor in employment success is that this is the only training program in the state to meet the significant workforce shortage.

- Kachemak Bay Campus, of Kenai Peninsula College, obtained U.S. Coast Guard approval to provide Able Seaman and Master 100 Ton certifications. Their first able seaman class produced nine graduates. They also delivered a range of vessel repair and maintenance classes to 180 high school and adult participants.
- To date, Horizon Air has interviewed and selected a dozen Community and Technical College Bachelor of Science in Aviation Technology students into the collaborative UAA/Horizon Air First Officer Training Commitment Program. Each student received a \$7,500 stipend from Horizon Air and signed a letter of commitment to work for Horizon Air, at their discretion, as a first officer upon completion. This was the first time UAA has partnered with a carrier in this capacity and we plan to create similar arrangements with other carriers in the future.
- Prince William Sound College works with industry partners, such as Pogo Mine and Alyeska Pipeline, to ensure the skills and work ethics the companies seek are incorporated into the millwright program. This has resulted in nearly all graduates who actively seek work finding jobs.



UA Fairbanks

- Mining and Petroleum Training Service (MAPTS) began partnering with EXCEL Alaska, a bridging program to assist high school students with career readiness. MAPTS delivered a surface mine training camp to 10 recent high school graduates. Many took permanent jobs while some chose to go on to higher education.

- Alaska Sea Grant, of UAF College of Fisheries and Ocean Sciences, delivered the biennial Alaska Young Fishermen's Summit for 84 young fishermen to teach them about fisheries policy, operational skills, and owning and managing a commercial fishing business.



- UAF Bristol Bay Campus used previous TVEP funding to develop a Maritime Career and Technical Education Pathway for entry-level fisheries jobs and career exploration to high school students. In 2017, UAF used funding to finish building a new outboard training unit to deliver workshops to more than 100 participants who wanted to increase their outboard diagnostic, maintenance, and repair skills for commercial/subsistence fishing and transportation.
- TVEP provides funding for the Community and Technical College process technology program, which includes a mining mill operations occupational endorsement in collaboration with the UAF Mining Engineering Department. The 2017 graduating class was able to demonstrate, to potential employers, the startup and shutdown of the full-scale industrial process located in the process technology facility. CTC process technology graduates have recently been hired by BP, Hilcorp, Alyeska, Kinross Fort Knox, Sumitomo POGO Mine, Coeur Kensington Mine, UAF Power Plant, ATS Alaska, and others.

UA Southeast

- The UAS Ketchikan campus finished its maritime center renovation and began delivering power tech, marine industrial, and fabrication courses in their newly renovated lab that includes 12 welding booths. They continue to partner with Vigor Alaska to provide specific shipyard training in construction math, nautical blueprint reading, welding, diesel engine repair, refrigeration, marine electrical, and hydraulics.
- Another key industry partner, The Alaska

UAF Success Stories: Sophie Tidler and Giovanni Good

Sophie Tidler, College of Engineering and Mines Rural Alaskan Civil Engineering Senior Design Initiative:

As a student, Sophie traveled to Point Lay to help investigate ongoing permafrost degradation undermining building foundations.

She summarized her experience as, "I received the most rewarding first-hand work experience in my education with



the University of Alaska through the TVEP program. Traveling to a remote Arctic village and communicating to people involved in my engineering design project propelled my learning experience and motivated me to focus on rural-based engineering projects." She is now working with ANTHC on rural water sewer and solid waste.

Giovanni Good, Campus Solar Photovoltaic Design Installation Workshop:

Arctic Solar Ventures sent their entire staff to all three Solar PV workshops. Giovanni attended one because his grandfather flew him up to Alaska to give him the opportunity to get on a career path. While in training, Giovanni landed a job with Arctic Solar Ventures and is enjoying his newfound career in Alaska.

Marine Highway System, provides internships to students who successfully complete the maritime multiskilled worker program. The internships support students to meet their sea time requirement.

- The UAS Construction Technology program partners with the Juneau School District and the Juneau Housing Trust on a house build project where secondary and postsecondary students build two houses each year. The students receive college credit plus NCCER credentials, and most of the students start jobs, continue their education, or join trade unions as apprentices.



**UNIVERSITY
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SOUTHEAST**

**Looking
Ahead**

- UA will reduce tuition rates by 25 percent in SFY 19 for selected Career and Technical Education (CTE) programs. The reduced tuition will apply to 50 programs and 305 courses at UAA, UAF, and UAS on a course-by-course basis.
- UAA College of Health is expanding nursing education with a focus on specialty areas, expanding access to nursing education in

UAS Success Stories:

Michelle Lipscomb and Anonymous Student

Michelle Lipscomb, Ketchikan Marine Transportation:

From her course evaluation following the Proficiency in Survival Craft class: "Thank you for taking the emergencies you have been involved in at sea and using the knowledge you gained to inform others, train mariners, and prevent avoidable disasters at sea. It has made me personally motivated to apply everything I have learned to every vessel I work ... to be relentless in keeping mariners safe in regards to emergencies and safety."

Student, Juneau Construction Technology:

In 2017, a young woman began her path into the construction trades field by completing her NCCER Core Curriculum training, then enrolled in additional CT courses and participated in the House Build project. Before completing the degree program, she joined the Carpenters Local Union and is now on her way down the apprenticeship path.

outreach sites and reducing strain on clinical sites, and streamlining the educational pathway to decrease time between admission and graduation for nursing majors.

- UAF Bristol Bay Campus offers the only sustainable energy occupation endorsement in the UA system and plans to develop and expand partnerships with regional and statewide organizations, deliver the program to rural and remote areas, and increase the number of students in the program.
- In response to repeated requests from industry, UAS will begin offering a new AAS fixed plant mechanic degree and occupational endorsement. Graduates of these programs will be able to work for local mines, with the fishing industry, in gravel quarries, and in any type of wood finishing mill. Internships with industry partners are already in place.

TVEP Supports UA's Campuses Statewide
SFY 2018

