Technical and Vocational Education Program Report

State Fiscal Year 2016

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 unemployment insurance contributions and depend on availability in that account. A percentage of the funds must be allocated to specific institutions in accordance with Alaska Statute 23.15.835.

Institutions must use TVEP funds for technical and vocational training programs and provide services that align with workforce regional demands and the Alaska Workforce Investment Board's (AWIB's) priority industries and state capital improvement projects. With the exception of University of Alaska, AVTEC, and Galena Interior Learning Academy, all entities 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 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. The division reviews applications for acceptable projects, use of funds, and conducts due diligence.

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.

In State Fiscal Year 2016, TVEP funding totaled $12,510,900. That amount is allocated directly in the percentages and to the institutions as shown below and includes the number of participants served with the TVEP funds.

The training institution overviews that begin on page 7 are based on the SFY 2016 program activities recipients reported directly and include training programs, partners, regional economic impacts, program highlights, and information about new and future endeavors.

SFY 2016 TVEP Allocations	Percent	Grant Amount	# of Adults Served	# of High School Students Served	Total # of Participants
Alaska Vocational Technical Center (AVTEC)	17 percent	$2,126,900	1423	67	1490
Alaska Technical Center (ATC)	9 percent	$1,126,000	696	187	883
Amundsen Educational Center	2 percent	$250,200	15	2	17
Galena Interior Learning Academy	4 percent	$500,400	n/a	260	260
Ilisaġvik College	5 percent	$625,500	696	32	728
Northwestern Alaska Career and Technical Center (NACTEC)	3 percent	$375,300	n/a	122	122
Partners for Progress in Delta, Inc.	3 percent	$375,300	300	175	475
Southwest Alaska Vocational and Education Center (SAVEC)	3 percent	$375,300	221	4	225
Yuut Elitnaurviat, Inc. People's Learning Center	9 percent	$1,126,000	637	87	724
University of Alaska	45 percent	$5,630,000	5,057	314	5,371

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 that of each of the regions, plus the state's overall employment and industry outlook for 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 89.5 people per square mile; in Alaska there is 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.

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 four 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 trickle-down 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 lose net jobs in 2016 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. Health care, retail trade, and tourism-related businesses have all grown moderately through the first half of 2016.

In the long term, from 2014 to 2024, Alaska is projected to add 19,700 jobs for a 10-year growth rate of a little less than 6 percent. Although health care jobs are not expected to grow as fast as they have in recent years, the 16 percent growth rate for that sector (which also includes social services) is still expected to substantially outpace overall job growth.

Other relatively strong sectors include leisure and hospitality at 11 percent projected growth and transportation and warehousing at 10 percent. Large or especially important sectors projected to lose jobs or grow more slowly than the economy overall include oil and gas extraction (-10 percent), support activities for mining (-7.2 percent), financial activities (-1.2 percent), and state government, excluding university jobs (-3.4 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 Barrow, 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 8,600 active duty military and an additional 1,400 dependents. The University of Alaska Fairbanks has a student enrollment of nearly 10,000, 88 percent of whom are 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 2015 (July 1, 2014 through June 30, 2015) 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 the following two measures:

1. The percentage of former participants who have a job one year after leaving the training program
2. The median wage of former participants seven to 12 months after leaving the program

Institution for SFY 2015	% Employed 1 Year After Exit	Median Wage 7-12 Months After Exit
Alaska Vocational Technical Center (AVTEC)	76.4%	$13,052
Alaska Technical Center, Kotzebue	81.3%	$11,635
Amundsen Educational Center	50.0%	$3,190
Galena Interior Learning Academy	n/a	n/a
Ilisaġvik College	82.7%	$24,410
Northwestern Alaska Career and Technical Center (NACTEC)	32.1%	$1,183
Partners for Progress in Delta	48.7%	$12,280
Southwest Alaska Vocational and Education Center (SAVEC)	74.8%	$15,389
Yuut Elitnaurviat	72.6%	$7,715
University of Alaska	74.2%	$13,860

Alaska's Institute of Technology (AVTEC), Seward

The Alaska Vocational and Technical Education Center, also known as AVTEC—Alaska's Institute of Technology, is located in Seward in the Gulf Coast Region. This postsecondary vocational and technical training center's mission is to train a diverse and effective workforce that supports the economic growth and stability of Alaska. Created by the Alaska Department of Education 1968 as the Alaska Skills Center, AVTEC has grown into a full-fledged multidisciplinary workforce training center that issues more than 1,500 occupational certifications each year.

Training Programs

- Alaska Culinary Academy
- Alaska Maritime Training
- Allied Health – Nurse Assistant
- Allied Health – Practical Nurse
- Diesel/Heavy Equipment Technologies
- Pipe and Combination Welding
- Construction Technology
- Industrial Electricity
- Plumbing and Heating
- Refrigeration
- Power Plant Operation
- Business and Office Technology Program

Dual Credit Articulation Agreement: University of Alaska

SFY 16 Partners

As the only multi-disciplinary vocational center in Alaska, AVTEC maintains partnerships with a tremendous variety of local, regional, statewide, and national organizations. AVTEC works with dozens of industry, government, and nonprofit partners to place students as well as ensure curriculum contains the skills and knowledge employers expect from new hires.

- ConocoPhillips/Polar Tankers
- United States Coast Guard
- Crowley Maritime
- Foss Maritime
- Edison Chouest Offshore
- Alaska Marine Highway System
- Southeast Pilots Association
- Cook Inlet Spill Prevention and Response
- Anchorage School District/King Career Center
- American Culinary Federation
- Prince William Sound Regional CAC
- CH2M Hill
- United States National Park Service
- Cook Inlet Region Inc.
- Municipality/Port of Anchorage
- American Red Cross
- Alaska Department of Education and Early Development
- Associated Equipment Dealers
- Holland America/Princess Cruise Lines
- Royal Celebrity Cruises
- Cisco
- CompTia
- National Center for Construction Education and Research
- Microsoft
- Alaska Energy Authority
- Alaska Village Electric Cooperative
- University of Alaska
- Nana Marriott
- Alaska Process Industry Careers Consortium (APICC)

Regional Impact

- As a statewide institution, TVEP funding has allowed AVTEC to support the training of Alaskans from every region.

- TVEP funds pay salaries for Residence Life staff members, who work in the housing and student activities program. These workers create a welcoming atmosphere that allows students, many of whom come from rural backgrounds or who are the first in their family to pursue postsecondary education, to succeed in training far from the natural support of their families, friends, and home communities.

- Many AVTEC students are unemployed or underemployed before attending training and use the TVEP-supported housing provided

during training. They ultimately become gainfully employed in their home regions. AVTEC's Residence Life program is what makes AVTEC a truly statewide program because it facilitates training for students from across Alaska.

- ◇ TVEP funding allows dormitory rates to be reasonable ($4,195 per term including meals) which allows financially disadvantaged students to attend training that isn't available in their home community.
- ◇ Residence Life staff members are students' primary links to Seward, and they provide transportation, support, and assistance for students needing to access the town's variety of public, private, and nonprofit resources and services.

- AVTEC provides Adult Basic Education Services to all locals through its library. AVTEC students frequently bring adult family members to training and live for five to 10 months in the family housing apartments. Many family members participate in ABE, earn their GED, matriculate into AVTEC training programs, or continue their education when they return home.

Program Highlights

- AVTEC is nationally accredited by the Council on Occupational Education and serves all residents of the state from every region of Alaska.
- AVTEC offers industry-standard training programs and is the only certificate-based occupational training in Alaska that offers a Residential Life component.
- In SFY 2015, AVTEC issued 1,602 certifications to more than 1,150 students. Of those, 350 students were enrolled in long term training programs (six to 40 weeks) and earned AVTEC certificates, and 783 students completed short-term programs (less than six weeks), earning 802 certificates from the Alaska Maritime Training Academy at AVTEC. Hundreds of others participated in short-term partnership training programs through the Alaska Energy Authority, The Alaska Native Tribal Health Consortium, Norton Sound Economic Development Corporation, and other public and private organizations that send students to AVTEC for short-term training or job preparatory programs.

AVTEC students on their way to class

- Over the past 10 years, AVTEC has been able to use TVEP funding in concert with State of Alaska capital improvement project funds, federal grants, and contributions from industry partners to complete several capital projects that have dramatically improved the quality of the facilities as well as increased the comfort and satisfaction of students, staff, and industry partners.
  - ◇ The new 20,500 square foot diesel/heavy equipment technologies shop was completed in March 2016 and increased enrollment in this high-demand program from 24 students per year to 36.
  - ◇ The 2016 expansion of AVTEC's pipe

welding shop increased enrollment from 20 students per year to 26.

- ◇ The new Third Avenue dormitory that houses 120 students was completed in 2014.
- ◇ Alaska Culinary Academy's new training building contains two training kitchens, a bakery, two classrooms, a restaurant, and a banquet hall. The Alaska Culinary Academy is the only American Culinary Federation certified culinary school in Alaska.
- ◇ The Alaska Maritime Training center has the only full mission bridge simulator in Alaska, the only maritime live fire training facility in Alaska, and the only USCG-certified Ice Navigation program in the nation.

What's New and Looking Ahead

- AVTEC added new training topics to the Information Technology program and a requirement for students to participate in an externship to give them real-world experience before graduation.
- The downturn in the oil industry and a corresponding decrease in associated employment resulted in reduced interest in related programs. However, with large mining and natural gas projects planned plus steady increases in the visitor and service economy, AVTEC expects enrollment in these areas to increase.
- Interest in the diesel/heavy equipment program recently increased with growth in mining.
- Interest in the Combination Welding program remains high, and it has a wait list and near 100 percent placement for graduates.
- Changing international regulations, arctic development, and an aging maritime workforce have resulted in growing demand for training programs at the Alaska Maritime Training Center.
- AVTEC will continue its ongoing upgrades of internal information technology systems essential to training and administration of such a large organization. Upgrades include improvements to Internet access, networks, and computing resources.

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 35th graduating class in May 2016.

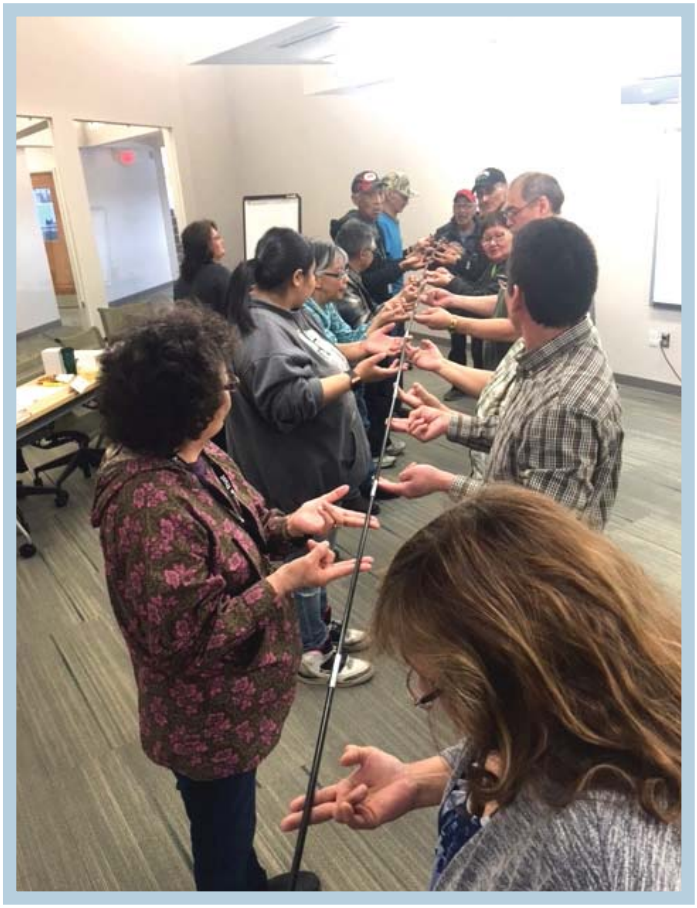
Training Programs

- Office Occupations
- Process Technology
- Culinary Arts
- Construction Trades Technology
- Health Occupations
- Adult Basic Education

Dual Credit Articulation Agreements: UAA School of Nursing; University of Alaska Chukchi Campus; University of Alaska Fairbanks – Culinary Arts

SFY 16 Partners

- Maniilaq Association
- NANA Regional and Development Corporations
- NANA Management Services
- NANA WorleyParsons
- Ilisagvik College
- University of Alaska Anchorage
- University of Fairbanks
- Fairbanks Job Center
- Kikitagruk Inupiat Corporation
- Teck Alaska
- Shell Alaska
- ConocoPhillips
- Tuuq Drilling
- Northwest Arctic Borough
- Northwest Arctic Borough School District
- UAF Chukchi Campus
- Nova Copper
- Northwest Inupiat Housing Authority
- Nullagvik Hotel
- Kotzebue Electric Association



Northwest Arctic Regional participants in Arctic Leadership Training

- OSIYO Group
- Bethel Services
- Ruen Drilling
- Alaska Native Tribal Health Consortium
- Aqqaluk Trust

Regional Impact

- Alaska Technical Center contributes to the region's economy by preparing workers for high-paying, high-demand Alaska jobs, serving 696 people in SFY 2016.

- ATC partner employers who hire graduates contribute to the economy through their payrolls and profits. Some of them, such as Teck Alaska, provide both Payments in Lieu of

Taxes and major philanthropic donations.

- ATC has hosted tours for more than 3,000 people from all its stakeholder groups over the last two years.

- ATC's partnership with the Shareholder Development Department of NANA Regional Corporation is central to recruiting. NANA Shareholder Resource Coordinators based in the 11 villages of the region and in Anchorage confer weekly with ATC staff to coordinate recruiting and engage NANA shareholders. Recently ATC learned that the ATC/NANA Shareholder Development Partnership was honored with a statewide award from the Alaska Adult Basic Education Program.

Program Highlights

- ATC has expanded the breadth, depth and course time for the culinary arts program. The primary employer partner, NANA Management Services Inc., has been pleased with the students coming out of the program.

- Trainees in the Construction Trades, Culinary Arts, Health Care, and Process Technology programs can dual-enroll to earn college credit toward University of Alaska certificates, endorsements, and degrees.

- ATC intensified recruitment by expanding its social media presence through its marketing site at atcstar.com and current events site at www.nwarctic.org/atc. ATC also regularly update its Facebook page at www.facebook.com/Alaska-Technical-Center-479774175411123/.

- ATC streams a weekly radio show regionally and online.

What's New and Looking Ahead

- The new Arctic Leadership Program that began last year was presented in partnership with OSIYO Group (www.osiyogroup.com) in April 2016. Nineteen tribal, municipal, and business leaders participated in the program and will complete the second half of the training in November. The program focuses on organizational development and building capacity for tribal and community entities. The program blends cultural values with 21st century business best practices, allowing local leaders to help their communities become sustainable and self-sufficient.

- ATC is expanding access to workforce training for Alaskans who do not have strong high school records or who lack a diploma.

- ATC has obtained grants to develop two additional programs for the 2017 and 2018 academic years. The first is for Community Health Aide/Practitioner training in partnership with Maniilaq Association, other tribal health organizations and the Alaska Native Tribal Health Consortium. The second, the two-year Workforce Innovation and Opportunity Act Youth Program grant, will expand and continue a PILOT program ATC and partners invested in to serve at-risk youth and young adults. ATC will recruit, enroll, and provide academic, vocational, and on-the-job experience for 26 at-risk young adults ages 14 to 24 each year.

- ATC is in the formative stages of developing an energy training program. As more rural communities expand their energy grids to include renewables such as wind and solar, there is a growing need to have locals operate and maintain those systems. Partners include NANA Regional Corporation, the Northwest Arctic Borough, the University of Alaska Bristol Bay and Chukchi campuses, Kotzebue Electric Association, and the Alaska Native Tribal Health Consortium.

- In November 2016, ATC will host the University of Alaska Bristol Bay Sustainable Energy program as an accredited course offering. The target market will include rural power plant operators and public utilities employees.

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

- Office Occupations Diploma
- Professional Medical Coding
- Residential Construction Diploma

Dual Credit Articulation Agreement: Interior Distance Education of Alaska (IDEA) home school program

SFY 2016 Partners

- Bering Straits Foundation
- Sitnasuak Foundation
- Norton Sound Health Corporation
- Norton Sound Economic Development Corporation
- Kawerak
- Fairbanks and Kenai Job Centers
- Coastal Village Region Fund
- Nunivak Island Mekoryuk Alaska
- North Island Scholarship Fund
- Association of Village Presidents
- Covenant Children's Fund
- Kenaitze Indian Tribe
- Buckland IRA (Indian Reorganization Act)
- Division of Vocational Rehabilitation
- Interior Distance Education of Alaska
- Kenai Peninsula College

Regional Impact

- Amundsen offers concentrated vocational training for those wanting to quickly enter or reenter the Gulf Coast workforce.

- Working with other organizations such as Alaska Department of Labor and Workforce Development's Division of Employment Training Services and Division of Vocational Rehabilitation and the Kenaitze Indian Tribe, Amundsen gives central Kenai Peninsula area residents a regional option for gaining skills and training for a range of occupations.

Bonnie Gaffe is using her training in her new position as accounts payable clerk and receptionist at Blazy Construction. Bonnie's supervisor, Jeannie McNutt, says, "Bonnie is such an asset in our office. She is proficient in Microsoft Office and is able to do assigned tasks independently and with great skill. She fits into our office structure perfectly."

Program Highlights

- Recently expanded opportunities include classes for homeschool students to earn dual credit and for teachers to earn continuing education units.

- AEC offers vocational tracks that focus on entry-level business and medical office education and has a strong record of training and employment placement.

- AEC provides training in professional medical coding, which is a growing profession. Central Peninsula Hospital continues to expand its facilities and medical staff, and more doctors' offices are springing up around the community on a continual basis. Every department and office needs at least one medical coder, and providing a local source for training nationally certified medical coders gives employers the confidence that they are

getting a well-trained, qualified employee.

What's New and Looking Ahead

- AEC has a new articulation agreement with Kenai Peninsula College to house female students who want to participate in AEC training programs. KPC's Residence Life program will be available to AEC students living at the facility. This new resource will allow AEC to better serve out-of-town and off-the-road-system students.

- The Microsoft Imagine Academy is new for fall 2016. After taking the Microsoft courses, Office Occupations students will have the option of taking the Microsoft Office Specialist Certificate Exam in Microsoft Word or Microsoft Excel. This exam testing is open to the community as well as students. AEC is the only Certiport Testing Center on the Kenai Peninsula that offers testing for these exams. By partnering with Microsoft through the Imagine Academy, AEC can advertise as a Microsoft training center.

- Also for SFY 16 is a selection of online professional development courses that will benefit not just full-time students on campus, but professionals in the community. Fall 2016 online courses include Microsoft Excel, Microsoft Word, Microsoft PowerPoint, Microsoft Access, Microsoft Dynamics CRM, Digital Literacy I, Digital Literacy II, Digital Literacy III, Mobile Office Applications, and Keyboarding.

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 of the state, and many are from small villages with few local education options. Galena's rural setting appeals to rural students' lifestyles and also allows those from urban areas to benefit from a focused emphasis on the individual student. 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

- Aviation
- Culinary Arts
- Construction Technology
- Media and Technology
- Natural Resources
- Cosmetology
- Driver's Education
- Health Science

Dual Credit Articulation Agreements:
Dual credit is obtained through the Tech Prep program in partnership with the University of Fairbanks Interior Alaska Campus (UAF-IAC). The Tech Prep program allows Galena City School District high school students (at GILA and Sidney Huntington High School) to earn credits toward a certificate and/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.

- There is no limit to the number of UAF credits a student may receive through Tech Prep.

- The cost is only $25 per credit instead of $192 per credit at the university. Some district students have graduated with more than 12 UAF credits at a cost of just $300 instead of $2,304.

SFY 16 Partners

- Tanana Chiefs Conference
- AVTEC
- Doyon Universal Services
- Fairbanks Memorial Services
- UAA
- Alaska Air Carriers Association
- Donlin Gold
- Gelvin Professional Training
- UAF
- Alaska Air Carriers Association
- City of Galena
- Louden Tribal Council

Regional Impact

Many of the economic impacts of the GILA model are difficult to quantify, as they provide exposure to various CTE courses and education in essential life skills. A quantifiable impact is the cost of each UAF credit students earn, which they take back to their village and can use as part of their continuing university education.

During the 2015-2016 school year, 169 high school students earned 473 college credits early, saving them $90,816. For an Alaska resident, a 100-200 level course costs $192 per credit at UAF.

Program Highlights

- Under the dual credit articulation agreement with the University of Alaska, 169 students earned 473 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.

- Five students took solo flights.

- Five students passed the FAA Written PPL Exam.

Above left, two students and Mrs. Weter tour Fairbanks Memorial Hospital, an industry partner, as part of an introduction to health professions. Above right, ETT training at the Allied Health Academy held in Galena included students from the Yukon-Koyukuk School District, IDEA Correspondence School, and GILA/SHS.

At left, Aaron Munter completes his solo flight as part of the private pilot flying course.

- One student completed the FAA PPL [Private Pilot License] check ride and received his license.
- Six students received their Microsoft Office Specialist Word certification.
- 47 students obtained their Food Worker Cards FWC (including visiting IDEA correspondence students).
- 26 students obtained their certification in Basic Life Support for Health Care Providers.
- 16 students applied for Hairdressing Student State Permits.
- Galena Health Academy produced 21 ETT certificates [including visiting IDEA correspondence students].
- Twenty students passed their DMV Permit Exam, of which 10 students completed the DMV application process and received their instructional permit license.

Ilisaġvik College, Barrow

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

- Associate of Arts Degree
- Teachers for the Arctic
- Inupiaq Studies
- Allied Health
- Business
- Information Technology
- Emergency Services
- Vocational Trades
- Heavy Equipment Operations
- Community and Workforce Development
- Foundation Studies
- Distance Education

Dual Credit Articulation Agreement: North Slope Borough School District and Hydaburg School District/Southeast Island School District

SFY 2016 Partners

- North Slope Borough
- Arctic Slope Regional Corporation
- Ukpeaġvik Inupiat Corporation
- North Slope Borough School District
- Hydaburg School District
- Ketchikan Indian Corporation
- City of Wainwright
- City of Kaktovik
- Nunamiut Corporation
- City of Anaktuvuk Pass

Regional Impact

- Ilisaġvik is the only educational institution that provides college classes on-site in the communities it serves. In the communities that do have other institutions, Ilisaġvik is the only one to offer this particular type of training (for example, captain's licenses classes in Unalakleet and Kotzebue, and construction classes at Highland Correctional Facility in Eagle River).

- The construction industry is one of the biggest and fastest growing on the North Slope. Even with the low price of oil, the oil industry still has a large impact on the region and with the help of TVEP funding, the college held numerous classes to support this staple industry.

- Ilisaġvik is Alaska's only tribal college, so Native students come from across the state to take classes.

- Ilisaġvik provides numerous opportunities to accommodate regional needs. When asbestos was found at the Naval Arctic Research Lab site, the college taught Asbestos Operations and Maintenance to 11 people who were immediately hired. When the Native Village of Barrow wanted to train their judges and employees to better serve their community, TVEP funds were used to send them to RADACT Counseling Tech Academy.

- To support communities, Ilisaġvik offers Alaska Safe Food Worker and Certified Food Protection Manager courses to local restaurants. Many institutions also take advantage of the college's CDL Written, Entry level Operation, Unrestricted Test Preparation, and QuickBooks Training: Basics and Beyond.

Program Highlights

- Ilisaġvik uses TVEP funding to teach 30-Hour OSHA Construction Industry Standards; 30-Hour OSHA General Industry Standards; Carpentry; Construction Technology Internship; Fundamentals of Crew Leadership;

Above, an Ilisaġvik student in Introduction to Alaska Small Wastewater Systems

At right, weekend welding instruction in Point Lay

Introduction to Construction Trades; Math for Carpenters; Mod. A, B, C *BLENDED Math for Electricians; Mod. A, B, C, Project Management; Project Supervision *BLENDED Welding Process Exploration; and Welding Skills Lab.

- TVEP provides the ability to teach 40-Hour HAZWOPER, 8-Hour HAZWOPER Refresher, Adult CPR, and NSTC.
- Ilisaġvik provides training to the North Slope Borough School District, teaching CDL School Bus to the employees and Introduction to the Construction Trades and Basic Driver Education to the students.
- The college helps job seekers by providing Job Club and Preparing Effective Resumes.
- Ilisaġvik expanded its reach into tribal communities off the North Slope and is able to offer Alaska Native Innovations Incubator and Digital Cultural Vocational Academy in Hydaburg.

What's New and Looking Ahead

- Many of the communities are expanding their tourism industry, with Kaktovik and Wainwright taking the lead. To assist these communities, Ilisaġvik will offer a range of related courses.
- In SFY 16, the college added a carpentry camp for high school students, which served seven students for a week. In SFY 17, Ilisaġvik will expand the Introduction to Construction Trades in high schools to include more schools and increase offerings to more villages in the region. Nearly every student enrolled in the classes gets a job because the classes focus on the unemployed, are taught with a community sponsor that will hire or help place students upon completion, and provide the training they need to climb from entry-level positions through the various career ladders on the North Slope. Ilisaġvik is pleased to have Vigor taking the construction trades graduates into their apprentice 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

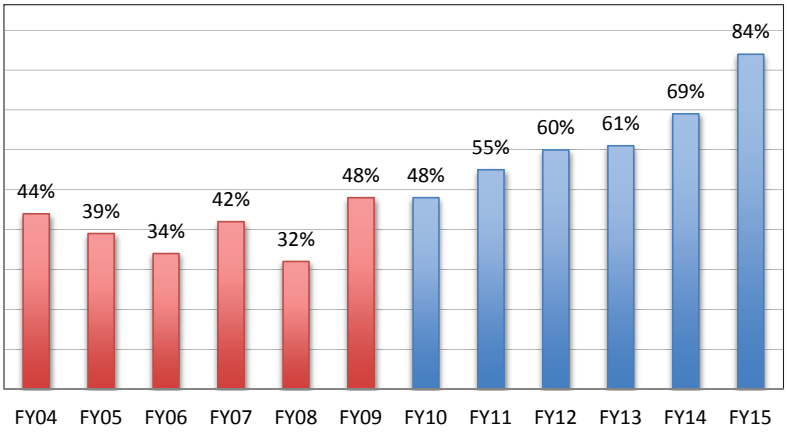
- Driver's Education
- Automotive Mechanic
- Business and Marketing
- Seafood Harvesting and Processing
- Health Care
- Aviation I, II, III
- Hospitality and Tourism
- Careers in Education
- Video Technology/Information
- Careers in the Military
- Construction

Dual Credit Articulation Agreement: University of Alaska Northwest Campus

SFY 2016 Partners

- Bering Strait School District
- Nome Public Schools
- UAF Northwest Campus
- Northwest Area Health Education Center
- Bering Straits Native Corporation
- Norton Sound Economic Development Corporation
- Norton Sound Health Corporation
- Pollock Conservation Cooperative

Bering Strait School District Graduation Rate



- Alaska Airlines
- ConocoPhillips
- Saltchuk
- Shell Exploration
- Wells Fargo
- Kawerak, Inc.
- Nome One Stop Job Center
- Nome Eskimo Community
- Nome Chamber of Commerce

Regional Impact

- Norton Sound Health Corporation (NSHC), the Bering Strait's largest employer, has worked closely with NACTEC since 2004 to deliver a series of dual credit courses leading to certified training programs such as Certified Nurse Assistant and Health Aide Pre-Session. Immediately after graduating, students begin month-long intensive training programs to attain regional certification.

- NSHC begins hiring successful trainees by early August, before high school graduates would be departing for college in the fall. As such, it reduces the cost of training while increasing the likelihood of successful completion and transition into employment in the region.

NACTEC students completing April 2016 AVTEC Transitions program in Seward, supported by industry partner Saltchuk. Three Bering Strait School District students pictured here enrolled in AVTEC programs in August.

- NACTEC fills a void in the Bering Strait School District and Nome Public Schools with an array of career and technical education training programs that otherwise wouldn't exist, and graduation rates have increased from 30-40 percent a decade ago to 84 percent in 2015.

- NACTEC grew out of the mutual interests of Nome Public Schools and Bering Strait School District boards. The concept of short-term (two-to-four week) training programs emerged to provide students who were dropping out at an alarming rate with in-region vocational training the villages otherwise wouldn't have.

Program Highlights

Over the past four years, nine students enrolled in and completed CNA training and seven moved from their villages to Nome to work as CNAs. Two students also obtained a registered nursing degree. NACTEC also provides health aide pre-session training, giving trainees another option for working in their home villages.

Driver education safety training is the region's most in-demand training program. NACTEC is the only program in the Bering Strait area that helps students graduate and obtain a driver's license, which are the two most critical necessities for entering the workforce. Enrollment grew by 20 percent in SFY 16 to an all-time high, but still with still greater demand than availability. Health care and construction training programs followed as those with the greatest interest.

NACTEC has a residential facility where students stay during their training. Residential programming helps students prepare and transition into higher education opportunities and is complementary to more advanced technical studies they pursue after graduation.

AVTEC Transitions Program

- New in 2016, industry partner Saltchuk supported the first of a three-year immersive "Transitions" program between NACTEC and AVTEC. Students slept in dorms, ate in the

cafeteria, completed adult education TABE tests, enrolled in a course similar to their NACTEC training, and worked side-by-side with AVTEC students.

- In August 2016, graduates from Shaktoolik, Shishmaref, and White Mountain who completed the NACTEC/AVTEC Transitions traveled to Seward to begin fall programs in plumbing, construction, and diesel/heavy equipment training.

- NSHC President/CEO Angie Gorn noted that a Gambell trainee from NACTEC's first health aide training program in 2014 has been one of the fastest to advance to Community Health Aide III, attributing the emphasis in NACTEC programs to exposing high school students to relevant careers in the region.

What's New and Looking Ahead

Heavy equipment operator training capacity is being built in the form of an eight-machine Caterpillar motion-based simulator center. In SFY 16, NACTEC upgraded motion-based capacity on seven machines, including track-type tractor (dozer), articulated truck, off-highway truck, mining truck, hydraulic excavator, motor grade, and large wheel loader.

A small wheel loader will be the final future upgrade to complete the Heavy Equipment Operator Simulator Center to full motion-based capability across all machines. NACTEC's approach to training was covered by Caterpillar in an August 2016 feature story.

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 are credit-bearing or certifying education and training to provide opportunities for military personnel/veterans to be given credit for prior service and learning, whenever applicable.

Training Programs

High School CTE

- AutoCAD
- Aviation
- Construction
- Metals[1]
- Metals Fabrication[1]
- Small Engines
- English 111 and 213
- Culinary Arts
- Math for the Trades
- Intro to Electrical Training
- Certified Nurse Training for dual credit[2]

Adult Programs

- Business and Marketing
- Certified Nurse Aide[2], Medical Terminology
- Computing
- English 111 and 213
- Microsoft Excel, Word, PowerPoint
- Welding[1]
- Entry Level Heavy Equipment Operator and Mechanic Academy with OSHA, MSHA, First Aid/CPR certifications and North Slope Training Card
- Pesticide Certification
- Master Gardener
- Extension Week varied topics classes
- Small Business Development
- Alaska Safe Food Worker's Certification

Dual Credit Articulation Agreement: Memorandum of Agreement with UAF, CTC and Delta/Greely School District which outlines dual credit opportunities for high school students taking courses in the following targeted areas:

- Occupational Endorsement pathway in welding
- Certificate in Applied Business
- Expanded Allied Health classes
- Construction Trades Occupational Endorsements and Certifications important for industry marketability
- Math 107 and Math for the Trades
- English 111 and 211
- Core requirement classes as appropriate

SFY 16 Training Partners

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

Regional Impact

- Partners for Progress in Delta, Inc. depends on TVEP funding for its operation and works with local businesses and vendors to distribute as much of the funding regionally as possible.

- Nearly the entire PPD budget is expended in the Interior and approximately 50 percent supports Delta area vendors and services.

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[1]Plans are under way for an occupational endorsement in welding through regular high school programming and seventh hour and night classes.
[2]Nurse Aide graduates have found jobs locally and/or have continued their nursing education through UAF or UAA.

TVEP funding is used 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 Aide/CPR, OSHA 10, MSHA, and the North Slope Training Card as well as access to apprenticeship opportunities.

- Partners support tuition offset vouchers for residents taking university classes as an incentive to take classes locally. Popular university programs include the Certified Nurse Aide Program, Computing, and Welding.

Program Highlights

- The largest program is the annual three-week Entry Level Heavy Equipment Operator and Mechanic Academy. The 11th annual academy, held June 2016, was the largest class with 15 students — 10 focused on heavy equipment operation and five focused on the mechanics side of heavy equipment. Besides Fairbanks, North Pole, and Delta, participants traveled from Valdez, Gakona, Slana, and Chefornak. All students, whether focused on operation or mechanics, took a required one-week safety training program.

- Partner Delta/Greely School District instituted a pilot class called Fab Lab that combines Metals and AutoCAD students in a rotation so they all learn how to design in AutoCAD and fabricate real world projects through the Metals portion.

- Two of the high school construction trades seniors were selected for direct indenture into the International Brotherhood of Electrical Workers (IBEW). PPD also helped a Delta High School senior obtain a slot in the UA Mining and Petroleum Training Services Underground Miner Program in February 2016.

- More than 120 community residents participated in the 2nd annual Extension Week in Delta March 21-25, 2016, which was offered by partner Cooperative Extension Service.

High school instructors Mike Adams (AutoCAD) and Gary Hall (Metals) teamed up for the fall 2015 and spring 2016 school year at Delta High School to introduce students to teamwork and basics in welding and AutoCAD. Students also learn the importance of math in both skill areas.

In all, 20 classes were held Monday through Friday.

- The Alaska Operating Engineers and Employees Training Trust recognize this academy as an approved pre-apprenticeship training for direct indenture into the Operating Engineers 302. PPD has provided this opportunity to nearly 120 people, with 25 percent earning slots in apprenticeships, others going to UAF for additional education, and others finding jobs with villages and businesses.

What's New and Looking Ahead

These programs will be offered in Fall 2016 by partner UAF Community and Technical College:

- Personal Awareness and Growth
- English 111
- Medical Terminology
- Business English
- MS Excel
- Math for the Trades
- Shield Metal ARC Welding
- Food Manager Certification

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

- Construction Technology
- Computer Technology
- Commercial Driver Licensing
- First Aid/CPR/EMT
- Heavy Equipment Operation
- Construction Technology
- General Maintenance Technician
- OSHA 10 and HAZWOPER Classes
- North Slope Training Card
- Welding Technology
- General Maintenance Technician
- OSHA 10 and HAZWOPER Classes
- Accreditation through UAF Bristol Bay Campus for the following classes: QuickBooks, Intermediate Microsoft Excel, Building Ventilation and Energy, Introduction to Facilities Maintenance and OSHA 10 Hour, and Outboard Maintenance and Repair

SFY 16 Partners

- Lake and Peninsula Borough
- UAF Bristol Bay Campus
- Bristol Bay Housing Authority
- Bristol Bay Area Health Corporation
- Bristol Bay Native Association
- Bristol Bay Native Corporation
- Bristol Bay Borough
- Bristol Bay Economic Development Corp

Regional Impact

- Travel outside the region is very expensive, and SAVEC provides an affordable local option for obtaining credentials and recertifications.

- HAZWOPER certification is popular and helps students become part of the regional workforce.

- Through SAVEC's maritime certifications, some students find jobs with regional maritime transportation companies or start their own businesses.

- Peninsula Airways, a local air carrier that offers year-round air transportation from King Salmon and Dillingham to Anchorage, uses the SAVEC facility to house students for its job-training program.

- The department's Research and Analysis Section's wage report for 2016 shows that wages are rising for the students who attend SAVEC classes. SAVEC hopes this will give rise to partnerships within the salmon processing industry.

Program Highlights

- Partner Bristol Bay Economic Development Corporation set aside $215,000 that was accessed through their Community Training Grants for calendar year 2016. These training grants were for residents of its 17 watershed communities. All student costs were covered, reducing costs for 14 other regional community members.

- Bristol Bay Native Corporation, in partner-

ship with its subsidiaries Bristol Bay Industrial, Peak Oilfield Service Company, and CCI Industrial Services, offered General Maintenance Technician Training at the SAVEC facility for shareholders or descendants. The training provided certifications for 23 people in Health Safety, Asbestos Abatement, North Slope Training Card, Fall Protections, Confined Space and Respiratory Protection, and Scaffold Training.

- From 2013 to 2015, SAVEC partnered with the Bristol Bay Native Association and the Bristol Bay Economic Development Corporation on a Rural Jobs Innovation and Accelerator Challenge grant.

What's New and Looking Ahead

- The tourism industry is growing in Southwest Alaska. SAVEC will strive to partner with tourism industry employers and owners to provide training to expand the local workforce.

- SAVEC will continue to help current employers upgrade incumbent worker skills and certification and ensure that new workers have the training necessary to be successful.

Yuut Elitnaurviat, Bethel

Yuut Elitnaurviat (Yuut) in Bethel is a 501(c)(3) corporation that provides training and education for the Yukon-Kuskokwim Delta in the Southwest Region. Training programs span 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

- Village Police Officer
- GED Services
- Commercial Driver's License
- Driver's Education
- Dental Health-Aide Therapy Program
- Certified Nursing Assistant
- First Aid
- Rural Facility Maintenance Technician
- Employer Driven Training
- Dual Credit Youth Construction
- College and Career Ready Program
- Dental Assisting
- Mine Training
- Wind Turbine Assistant Technician Training

Dual Credit Articulation Agreement: Lower Kuskokwim School District

SFY16 Partners

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

Regional Impact

- Yuut's strength is the ability to quickly offer job-linked training to employers in the region, developing and deploying a program in a matter of weeks. Some programs involve longer term planning, but Yuut gathers resources, receives grants, and finds students who are willing and ready to go to work.

- TVEP allows Yuut Elitnaurviat, and consequently the region, to combat the high cost of facility operation in rural communities. The organization uses TVEP funds to keep infrastructure operational during the year, allowing them to supplement overhead costs and give partner organizations an affordable option for training in the region.

- There are numerous barriers to training success for students in the region. Having a local option that is aware of the different cultural makeup of Southwest Alaska and is a short flight from home has proven to be a model for regional success.

- Yuut Elitnaurviat offers direct-to-work training with local partner organizations, and in the case of the commercial driving program, a student can transition from unemployed to possessing a nationally recognized and desired credential in a matter of weeks.

- Yuut provides a pool of local commercial drivers for organizations such as the City of Bethel and local fuel delivery companies so they do not have to fly in commercial drivers from Anchorage.

- The Yukon Kuskokwim Health Corporation (YKHC) is the region's largest employer and the Bethel CNA Program — a partnership between the University of Alaska Fairbanks, YKHC, and Yuut Elitnaurviat — has provided

more than 70 CNAs for the Yukon Kuskokwim Elder's Home and the hospital. Having a local bilingual CNA workforce is better for the elders in the region and better for patient care due to shared cultural experiences.

- The facility is also used for multiple activities in the community, most recently as emergency housing for students when the Kilbuck School burned down, and it has become an emergency boarding school for the district until the new school is built.

Yuut Elitnaurviat's Driver Training Program remains one of the most popular training opportunities. Program participants use the tractor-trailer and driving van so that people who don't own vehicles can still take the State of Alaska Road Tests without having to go to Anchorage. In SFY 16, the full CDL program trained nine Class A commercial drivers.

Program Highlights

- High school students who remain in the region have access to multiple opportunities for postsecondary training. The local branch campus of the University of Alaska Fairbanks offers short-term certificate training as well as the chance to earn college credit in Certified Nursing Assistant (CNA) classes through the partnership with Yuut Elitnaurviat. These classes are six weeks to a semester in length, and completers earn nine UAF credits plus the opportunity to obtain a state credential through the Alaska Board of Nursing. In select cases, Yuut can enroll current high school students into these classes and has funding to pay tuition for recent high school graduates.

- Yuut's Yukon-Kuskokwim Delta Apprenticeship program has a School to Apprenticeship agreement with Bethel Regional High School and Kuskokwim Learning Academy so qualifying high school students can earn 500 registered hours toward carpentry, plumbing, and electrician programs upon completion of pre-approved coursework.

- In SFY 16, Yuut held two Rural Facility Maintenance Technician Level 100 classes through the GED Works grant. In partnership with AVTEC and the City of Bethel, Yuut held Wind Turbine Technician Assistant training through a grant from Wells Fargo. Yuut also held an Introduction to Welding training in partnership with Donlin Gold through a grant from the Alaska Community Foundation.

What's New and Looking Ahead

- For the next two to three years, Yuut is accommodating the 120 students attending the Kuskokwim Learning Academy (KLA)to ensure they can seamlessly continue their education. This has affected some of the adult programs by filling the classrooms and the dormitories. Yuut is leasing an 18-bed man camp and the school district will bring in two portables that house two classrooms each. Yuut and KLA will share the Construction Trades Shop.

- There is a large hospital expansion/remodel at the Yukon-Kuskokwim Health Corporation. Davis Construction and ASKW were awarded the construction contract, and Yuut is coordinating with them to identify employee and training needs.

- Yuut will focus on construction training, welding training, and registering electrical and plumbing apprentices with our federally

recognized apprenticeship program for the next several years.

- Yuut continues to partner with the Lower Kuskokwim School District to provide maintenance training to staff through its Rural Facility Maintenance Technician Certificate program, and will hold four six-week Class A CDL courses in SFY 17.

- Recognizing that health care remains the largest employer in the region, Yuut will continue to train Certified Nursing Assistants through the Bethel CNA Program and find ways to train and hire local Licensed Practical Nurses and Registered Nurses.

University of Alaska

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

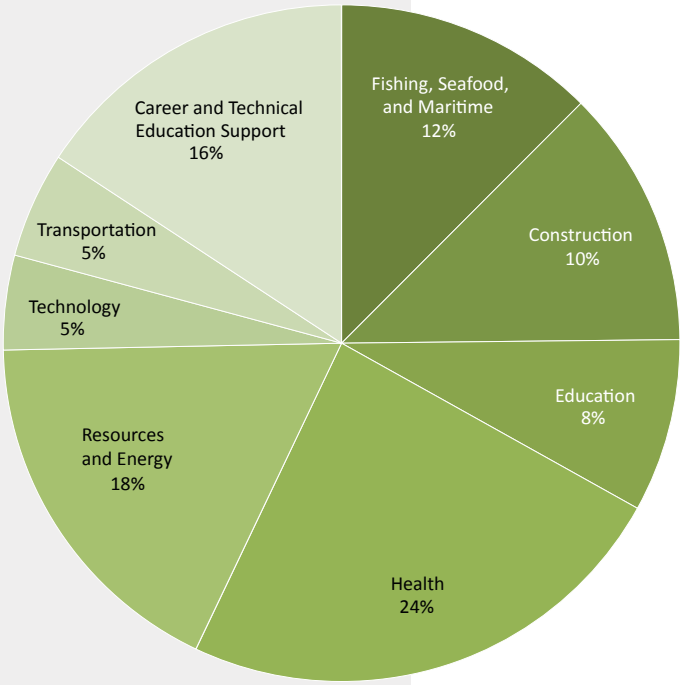
For more the University of Alaska Vocational Education Programs:

http://www.alaska.edu/research/wp/

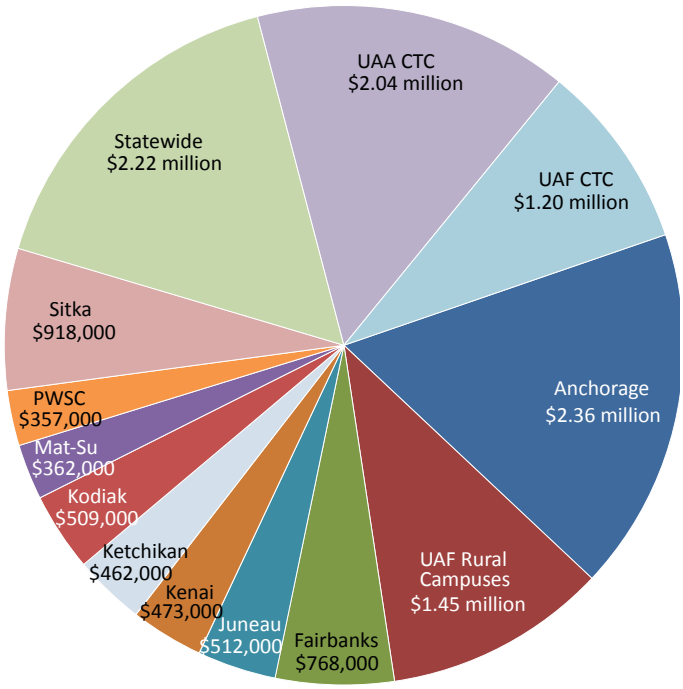
Regional Impact

In SFY 2016, the total annual amount UA received for TVEP was $5.63 million. The UA Statewide Office of Workforce Programs works with representatives from the UA campuses and the Alaska Workforce Investment Board to review campus proposals and allocate funding to the programs or projects that address State of Alaska workforce development priorities, meet high-demand and regional workforce needs, align with university priorities, promote collaboration across the UA system, and expand partnerships with industry and communities.

TVEP Supports High Priority Industries SFY 14-16



TVEP Supports UA's Campuses Statewide SFY 14-16



University of Alaska Anchorage

Program Highlights

Physical Therapy Assistant
UAA College of Health

TVEP Funding for SFY 14-16: $372,000

This funding supported one full-time faculty position and supplies for the PTA program.

Prior to the creation of the UAA PTA program, Alaska was the only state that did not offer a program in physical therapy and was ranked 49th/50th in PTAs per capita. As a result, Alaskans had to leave the state to complete their PTA education and often did not return to Alaska. This program allows 12 new PTAs a year to enter Alaska's workforce, a 12 percent increase in 2016.

The class of 2015 graduated 11 students with eight having already passed the national licensing exam and the remaining three scheduled to take it in fall 2016. Ten of the 11 are working as PTAs in Alaska (you can work under a limited permit until becoming licensed). The program recently received full accreditation through 2020.

"The PTA program will impact all of greater Alaska by providing skilled therapy and a professional outlook of health care in local and rural communities." Barbara Yeagley, PTA 2015 graduate

Millwright
UAA Prince William Sound College

TVEP Funding for SFY14-16: $250,400

This funding paid for a millwright instructor and equipment. The millwright program trains workers for critical components of Alaska's industrial base such as oil and gas, mining development, and power generation. Students learn the skills necessary to install and repair a variety of fixed industrial machinery. The program offers students the opportunity to test for industry recognized credentials through the National Center for Construction Education and Research and nearly 100 percent are obtaining their credentials. Job placement or promotion is very high, with many graduates working for local employers such as Petro Star, TCC, Crowley, the City of Valdez and Alyeska Pipeline Service Company, along with other employers around the state.

"Thanks to our many contributing sponsors we have been very successful in placing our students in companies around Alaska. One hundred percent of students who actively sought work after the completion of the program were employed in their chosen field and have been able to earn higher wages than their contemporaries who did not complete a comparable program." Dennis Eastman, Assistant Professor of Millwright at UAA PWSC

For more information on TVEP at UAA, contact Director of Workforce Development, Bonnie Nygard at (907) 786-6400 or bknygard@uaa.alaska.edu.

University of Alaska Fairbanks

Program Highlights

Construction Trades Technology
UAF Bristol Bay Campus

TVEP Funding for SFY 14-16: $180,000

The funding was used to hire and pay the salary of a Construction Trades Technology instructor. CTT offers a variety of unique training opportunities to students, including overseeing the construction of four student-built energy efficient cabins, plus hands-on experience with new Computer Aided Drafting (CAD) and machining, Computer Numerically Controlled router and plasma cutter, and CNC Mill and software in the Fab Lab.

The successful completion of the program has helped students gain credentials in CPR, first aid, automated external defibrillator training and certification, Occupational Safety and Health Administration (OSHA), and outreach construction training through the National Center for Construction Education and Research. Partnerships with regional schools have enabled high school students to earn dual credit/tech prep experience. The program helps meet high-demand career needs in rural Alaska.

"Thanks to TVEP funding used as seed money, we have been able to serve 932 student seats in CTT courses since 2013. This includes 35 occupational endorsements in basic carpentry, one certificate in CTT, and three occupational endorsements in facility maintenance." Debi McLean, UAF BBC Director

Wildland Fire Science
UAF Interior Alaska Campus

TVEP Funding for SFY 14-16: $375,100

This paid for a Wildland Fire Science faculty member to revitalize the program, work with industry partners on content, develop curriculum, and establish an occupational endorsement while

also teaching classes. In SFY 15, the project was expanded to add a university-based fire crew.

Every course includes hands-on training that provides students with a national certification in addition to college credit, all of which the industry highly values. Students in this program are helping fulfill a need for local hires within the industry.

IAC also started the first university wildland fire crew in the state and second in the nation. This pilot project was a partnership between the State of Alaska Division of Forestry and UAF. Students enrolled in the WFS program applied to be a part of the crew. Those selected had a profitable fire season, earning $18,500 over three months of deployment.

"The WFS program and subsequent UAF wildland fire crew have blossomed into one of the, if not THE, most comprehensive WFS programs in the country." Tylan Martin, Assistant Professor, UAF Wildland Fire Science

For more information on TVEP at UAF, contact Dean for the College of Rural and Community Development, Pete Pinney at (907) 474-7089 or pppinney@alaska.edu.

University of Alaska Southeast

Program Highlights

Marine Transportation
UAS Ketchikan Campus

TVEP Funding for SFY 14-16: $149,500

The funding provided support for a full-time MTR faculty position and equipment, allowing the MTR program to grow and offer more courses both in class and through e-learning as well as deliver the newly approved Associate of Applied Science in MTR. It is the only degree of its kind in the Alaska.

The program trains employees for Alaska's transportation, tourism, and fisheries industries while partnering with more than 18 agencies and businesses, including the Alaska Marine Highway System, Southeast Alaska Pilots' Association, Vigor Alaska, towing companies, and city, borough, and school districts.

The MTR program provides a strong curriculum focused on providing U.S. Coast Guard-approved courses and credentialing to the maritime sector throughout the state. The training and certification is required by the USCG for mariners to obtain work and advance their careers.

"I have the sea time and I hope this class will open new doors and a new career in the maritime industry." Jack Finnegan, UAS Ketchikan MTR student

Tech Prep
UAS

TVEP Funding for SFY 14-16: $206,500

The funding provided one full-time tech prep coordinator to service 17 school districts in Southeast Alaska. In SFY 15, UAS Tech Prep offered more than 70 college courses to high school students in 54 school districts throughout Alaska, both at high schools and via distance classes. Tech prep enriches students' experiences, creates a college transcript, and encourages participation in college courses for $25 per credit. It levels the playing field for students in small districts by offering coursework they could not otherwise afford nor access in health sciences, construction technology, marine transportation, power technology, mining, teaching/education, and more.

Educating young Alaskans for critical job markets at the local level strengthens the economy, leads to a higher quality of life, and potentially contributes to higher wages for high school graduates.

"Once I heard you get nine college credits, it was like an extra bonus and made me want to work harder to earn my CNA certification." Kyla Teat, UAS Tech Prep student

For more information on TVEP at UAS, contact Pete Traxler, Executive Dean at 907/796-6139 or pbtraxler@uas.alaska.edu.

University of Alaska Statewide

Program Highlights

Hard-Skills Mine Training Camps
UA Mining and Petroleum Training Services

TVEP Funding for SFY 14-16: $745,800

This funding paid for well control and mining instructors plus the development and delivery of Hard-Skills Mine Training Camps.

The mining sector in Alaska is known for high-paying jobs with above-average benefits and long-term employment. The median annual wage for Alaska-based miners is $89,000 with benefit packages ranging from 35 percent to 48 percent.

When MAPTS started this program in 2013, Alaska operating mines had an average of 18 percent annual employee turnover, which equated to approximately 324 positions a year. Several prospective mine projects could add an additional 3,000 job openings to the existing shortage of trained workers.

MAPTS and the University of Alaska Underground and Surface Mine Training Programs focus on both hard skills and employability skills necessary to create a stable and sustainable workforce. The 280-hour underground program is designed and delivered in partnership with mining industry employers. The program is based on the utilization of a facility that provides a camp environment and simulation in which students get hands-on experience operating equipment as well as general mining task experience, regulatory and compliance classroom and field experience, and the built-in employability skills training.

The employers recruit, interview, prescreen, and select the qualified candidate for training, then issues a job offer contingent on the successful completion of training. The program target is to employ 80 percent of successful students within

the first 30 days of class completion and the remaining 20 percent within six months. MAPTS has achieved 86 percent post-training employment and even more success with retention of those employees.

"Thank you for the opportunity to learn something new. I almost didn't go … I thought I wasn't going to make it, but after (seeing) that 'never give up' poster in the classroom, I kept on going and I'm glad I went. I'm going to start working in about two weeks and I can't wait." George Willis, UA MAPTS student

For more information on TVEP at UA Statewide, contact Associate Vice President of Workforce Programs, Fred Villa at (907) 450-8008 or fvilla@alaska.edu.

Performance Indicators for TVEP-Related Concurrent Enrollment in SFY 16	
School Districts With Articulation Agreements	28
School Partnerships	65
Courses with Concurrent Enrollment Students	98
Students Who Completed Concurrent Enrollment Courses	314

What's New and Looking Ahead

TVEP funding supports enrollment initiatives to increase student success, including concurrent enrollment, expanding academic support, and innovative program delivery.

The University of Alaska is actively pursuing opportunities for competency-based and work-based learning in technical training programs to increase students' hands-on experience in preparation for careers.

Working closely with employers and industries across Alaska, UA is aligning its curriculum to industry standards and updating technology to provide students with the best possible learning experiences.

Concurrent Enrollment

In SFY 16, TVEP funding helped high school students receive college credit in courses including Introduction to Education, Private Pilot Ground School, Basic Welding, Construction Technology, Networking and LAN Infrastructure Basics, Introduction to Mining Occupations and Operations, Medical Terminology, and Emergency Trauma Technician. Articulation agreement inventories are online at www.alaska.edu/research/wp/CTE/uatc/.

Academic Support

We are expanding the Math Emporium in SFY 2016 based on its quick success in its first year. UAA Community and Technical College launched its Math Emporium in the fall of 2015, an adaptive learning model that takes math out of the traditional classroom and into a high-tech learning environment, allowing students to interact with self-paced online software while

receiving guidance from instructors. It serves students who test into preparatory math courses and need additional support to strengthen math learning skills.

Almost 20 percent more students completed Math Emporium sections with a passing grade of C or higher compared to non-Math Emporium sections. Of the 123 students who took fall classes, this represents 24 students who passed that may not have in traditional sections.

Apprenticeship

The University of Alaska has joined the Federal Dept. of Labor Registered Apprenticeship Community College Consortium to provide additional opportunities for employers to leverage UA programs in recruiting their future workforce. Students can receive related instruction from UA to supplement their competency-based learning experiences to meet the demands of future employers.

A great example of this is the partnership between the Automotive Technology program at UAA Community and Technical College and Continental Auto Group that has resulted in a registered apprenticeship program. This allows Continental to grow their own pipeline of employees who are receiving foundational skills for entry-level employment and specialized training and certifications from vehicle manufacturers. The "earn while you learn" program provides students with direct placement in the workforce and gainful experience working with mentors to help ensure their success.