

Producing Alaskan Workers for Alaska's Workforce





Careers

Competitive wages, excellent benefits and opportunities to work outside or in an office – The construction industry offers variety opportunity & great pay – with or without a college degree!

Training

There are many paths into and within the construction industry, take a look at the many different paths you can follow in your career and discover the one that's right for you!

Find a Job

After all of the training and on site experience has taken place, you are ready to join the industry! You've got the skills and the experience – Check out who's hiring in Alaska.

\$2.3

Total Labor Income of Alaskan Construction Workers (Billions)

23,700

Number of Construction Workers in Alaska

9.8%

Predicted Growth in Alaska Construction Trades between 2020 and 2030





2023 JOBS FORECAST

Capitalizing on federal investment to strengthen Alaska's future

- \$1.2 trillion infrastructure bill workforce needed for roads, bridges, broadband, ferry system, water, and wastewater projects
 - CDL Drivers
 - Construction Managers
 - Heat/Air/Ref Mechanics
 - General Ops Managers
 - Telecommunication Install/Rep
 - Engineers & Engineering Techs
 - Architects
 - Welders
 - Surveyors
 - Facilities Repair & Management
 - Business Services
- Job growth also anticipated in health care, transportation, public schools, resource extraction, and energy development



UA is Key to Meeting Alaska's Workforce Needs

UA PROGRAMS SUPPORTING INFRASTRUCTURE PROJECTS

Strengthening Outcomes Through Partnerships



























UA CONSTRUCTION PROGRAMS

Targeting \$800K in Investments

Marketing | Faculty | Program Support





Our Shared Vision

UA System Construction Management Workforce Development Initiative

Background & Overview:

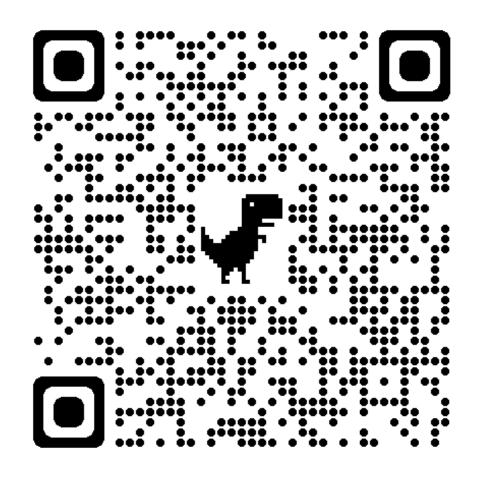
- Workforce scarcity and shortfall of incoming graduates
- Infrastructure Bill
- Combined resources and impact

Fundraising Challenge:

- Target investment of \$800,000 in private philanthropy
- Internships
- Enrollment Increase

Creating Awareness / Showcasing Pathways:

- Alignment
- Identifying target markets
- Examples: UA Construction Report; Empower Alaska; AGC Panel
- University of Alaska + Industry Alignment = Student Pathways to Alaska's Workforce



Scan this QR code to support the Construction Management Workforce Development Initiative

University of Alaska Construction Management Programs

A University & Industry Partnership: Producing Alaskan workers for Alaska's construction workforce



Target Investment of \$800,00 Private Philanthropy:

A Wise Investment:

\$333,000

raised to date*

*as of 9/15/2023

Targeted Marketing

\$50,500

Faculty

\$250,000 75%

Internships

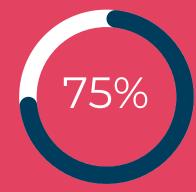
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10%

Increased Enrollment from Fall 2022 to Fall 2023







132 students are enrolled in Construction Management and related programs across the state at UAA, UAF, and UAS. Enrollment for Construction Management and related programs is up an average of 75% from Fall 2022 across UA.

To see how UA grads are building up Alaska's workforce, visit: www.alaska.edu/research/wd/reports.php



Faculty Recruitments are Actively Underway

Searches are in progress for talented, experienced program instruction, including:

UAA: tenure track faculty member UAF: full time faculty member UAS: adjunct faculty member

A Shared Vision

This initiative aligns the universities' curriculum and strategic recruitments to meet industry needs.

UAA Activities

- Targeted marketing
- Highlighting career growth opportunities
- Shifting internship opportunities to first and second year students

Empower Alaska Video



UAF Activities

- Adjusting course requirements to align with industry demand
- Transferring applied knowledge towards college credit, recognizing the value of on-the-job training
- Offering fully online construction management programming

UAS Activities

- Traveling to communities and providing 2-day workshops (tools & materials)
- Providing courses for K-12 students in remote communities
- Using video storytelling to attract and recruit new students

This initiative has forged new relationships and sparked conversations for Alaska's future workforce.

*Updates and figures are accurate as of 10/12/2023





I tell anyone who comes and talks to me about a career path in construction, that if they have a passion for creating, for helping, for building the economy, building opportunity — this is a place for them. I think that the university is such a valuable partner.

Meg Nordale, President, GHEMM Company



Scan the QR code to watch the video



UA SYSTEM

Three Universities, One System

Unique Missions Offering Diverse Value

16+

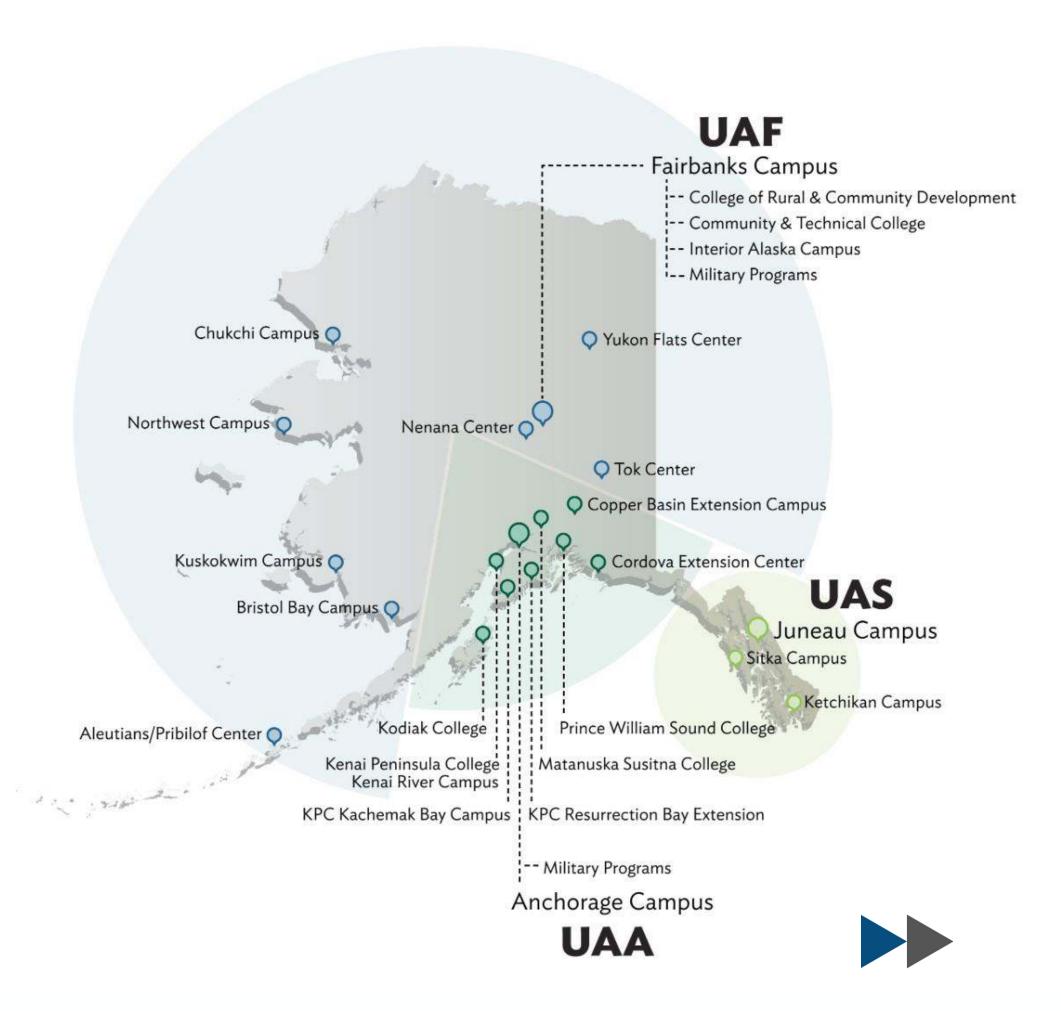
Colleges, campuses, and extension sites providing access statewide

400+

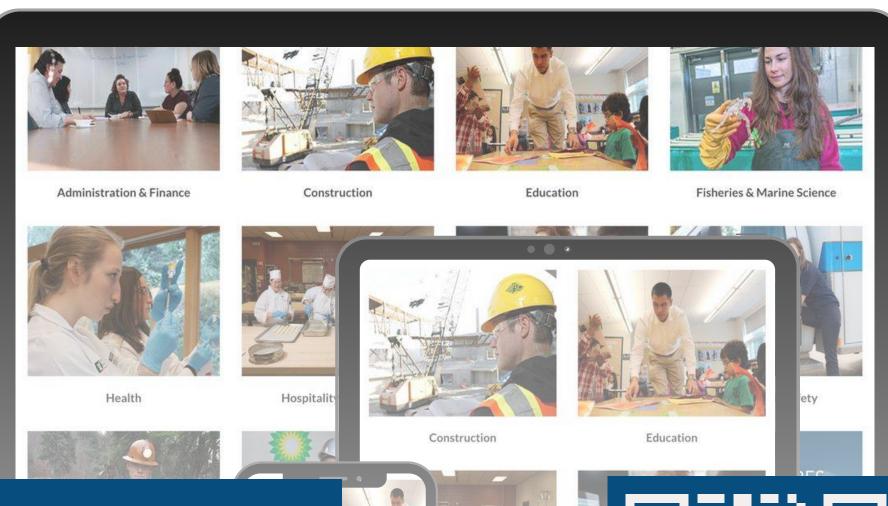
Breadth of programs from workforce credentialing to doctoral degrees

20K+

Students served across all six economic regions



2023 UA WORKFORCE REPORTS



11 INDUSTRIES HIGHLIGHTED

Administration & Finance

Construction

Education

Fisheries & Marine Science

Health

Hospitality & Tourism

Information Technology

Law & Public Safety

Mining

Oil & Gas

Transportation

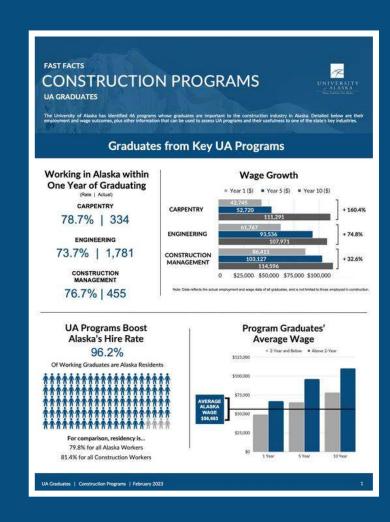


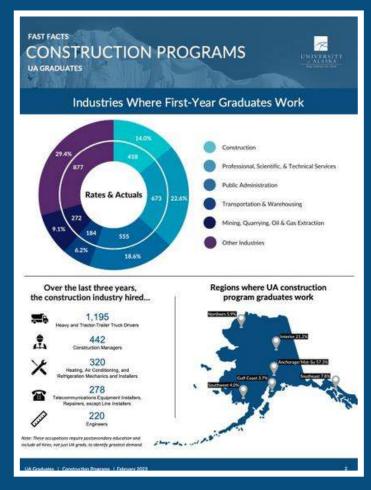
& Gas

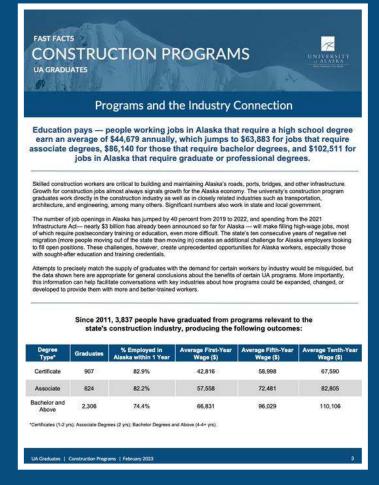
Transportation

CONSTRUCTION UA WORKFORCE REPORT

The University of Alaska has identified 46 programs whose graduates are important to the construction industry in Alaska. Detailed below are their employment and wage outcomes, plus other information that can be used to assess UA programs and their usefulness to one of the state's key industries.











CONSTRUCTION

UA Workforce Report Highlights

46

UA Programs Support the

Construction Industry

3,837

Graduates since 2011



Graduates from Key UA Programs

Working in Alaska within One Year of Graduating

(Rate | Actual)

CARPENTRY

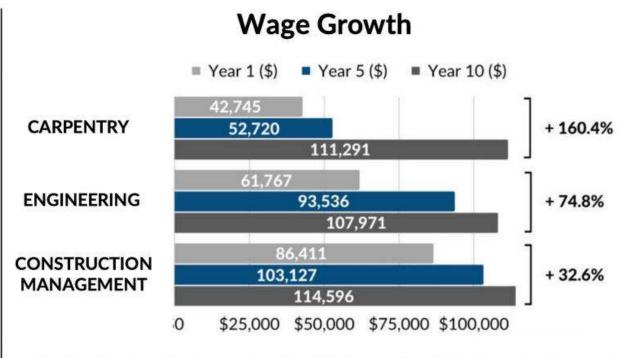
78.7% | 334

ENGINEERING

73.7% | 1,781

CONSTRUCTION MANAGEMENT

76.7% | 455

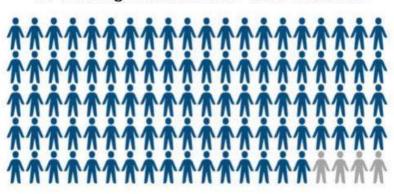


Note: Data reflects the actual employment and wage data of all graduates, and is not limited to those employed in construction

UA Programs Boost Alaska's Hire Rate

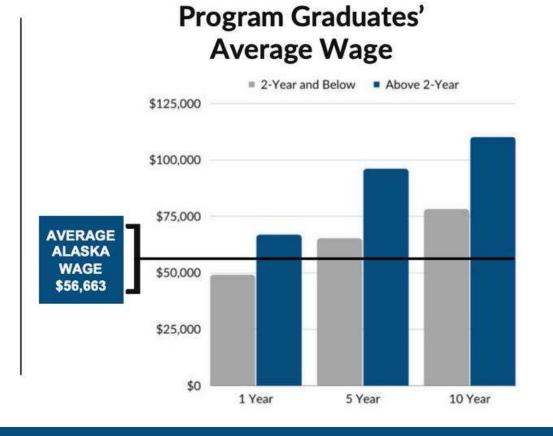
96.2%

Of Working Graduates are Alaska Residents



For comparison, residency is... 79.8% for all Alaska Workers

81.4% for all Construction Workers



UA'S IMPACT ON ALASKA'S CONSTRUCTION WORKFORCE

Since 2011

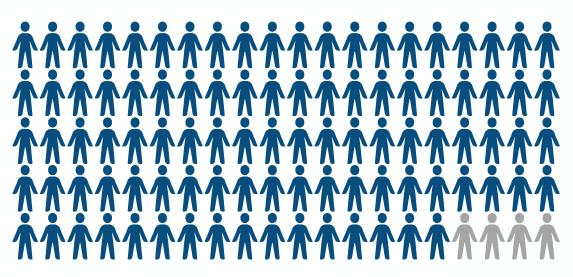
3,837

Students have graduated from programs relevant to the state's construction industries, producing the following outcomes:

	Degree Type*	Graduates	% Employed in Alaska within 1 Year	Average First-Year Wage (\$)	Average Fifth-Year Wage (\$)	Average Tenth-Year Wage (\$)
	Certificate	907	82.9%	42,816	58,998	67,590
	Associate	624	82.2%	57,558	72,481	82,805
	Bachelor and Above	2,306	74.4%	66,831	96,029	110,106

UA Programs Boost Alaska's Hire Rate

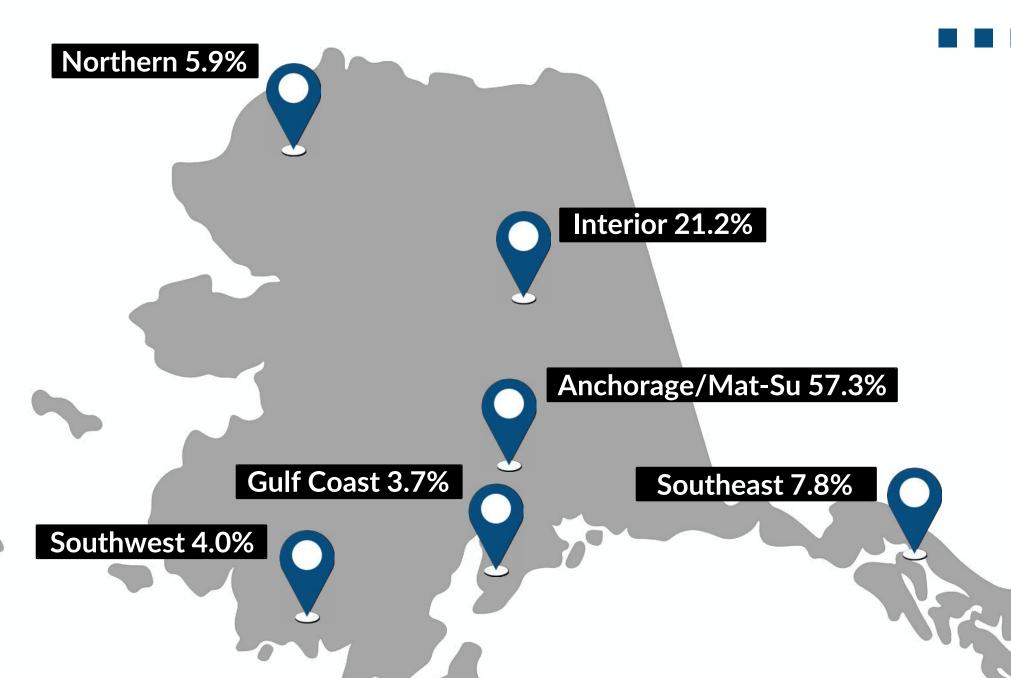
96.2% Of Working Construction Program Graduates are Alaskan Residents



For comparison, residency is 79.8% for all Alaskan Workers and 81.4% for all Construction Workers











UAA Construction Overview

CONSTRUCTION MANAGEMENT

- Associates of applied Science and Bachelor's of Science in Construction Management
- Externally Accredited by The American Council of Construction Education
- Bachelor students sit for the ASC Associate Constructor Exam
- All online program since 2020



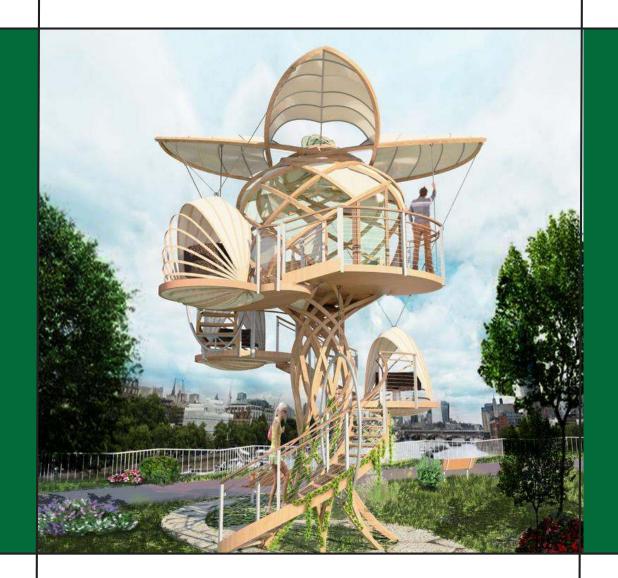




UAA Construction Overview

ARCHITECTURAL & ENGINEERING TECHNOLOGY

- Associates
- 3d Modeling
- Graphic Design focused on Arctic Construction
- Design studies include mechanical, electrical, and plumbing systems into building design







UAA Construction Overview

OCCUPATIONAL SAFETY AND HEALTH

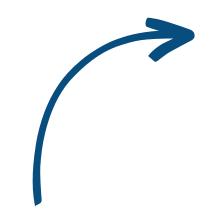
- Program options
 - OEC in safety Specialist
 - AAS in OSH
 - BS in OSH
- Online program available across the state
- Focuses on construction safety management, process safety, incident investigation and analysis, legal aspects of occupational safety and health, and the economic value of safety
- Paths to ASP and CSP







UAF Construction Overview

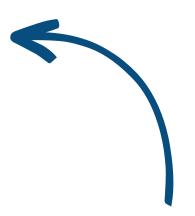


CertificateDrafting Technology

Associate of Applied Science Degree Construction Management (CM)



Occupational Endorsement
Construction Trades Technology
(Facility Maintenance) (Basic Carpentry)



Prior Learning
Apprenticeship
Work Experience



- Program revisions submitted, affective fall 2024
- CM courses all online as of fall 2023
- Increased enrollment by 30 over last year
- 20 course seat capacity



UAS Construction Overview

Occupation Endorsements:

Computer Aided Drafting Technician Residential Light Construction Welding

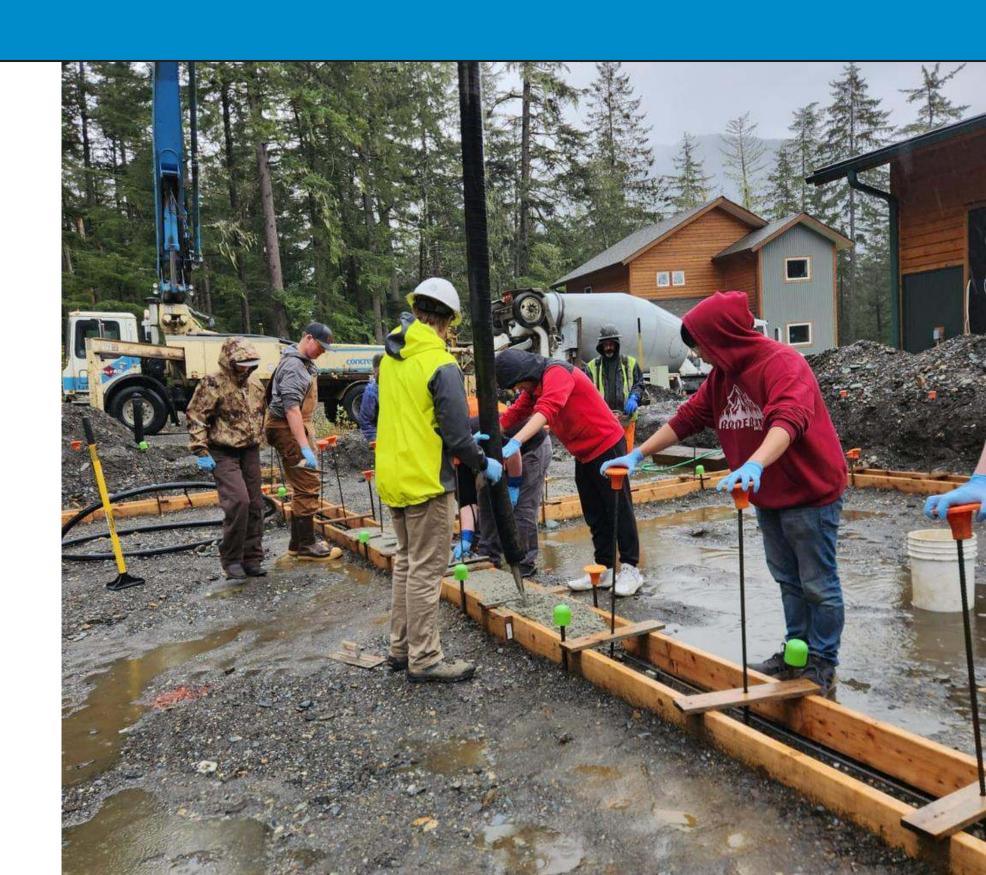
Certificates:

Drafting Technology

Associates Degree:

Construction Technology





UAS Construction Overview

Pathways

Dual Enrollment for high school students

House Build Program

Collaboration to build affordable housing

ROUSE BUILDS
LEARNING OF BUILDS

UAS
Construction
Technology
Program

+

Juneau School District



Juneau Housing Trust



Alumni Spotlight

Mack Pennington, Sr. Project Manager, PMP



Alaska Grown, Alaska Trained

UAA Construction Management Graduate

6+ years with STG Pacific LLC



UA Construction & Planning *Listening Session*

Tuesday, November 28 | 2-4 p.m. via Zoom

Please tell us how we can better partner with the construction community or start building a relationship with your company











The most successful folks in our industry are the ones that are homegrown, and they play a vital role in helping the entire state meet the workforce needs long into the future. I have a lot better success when securing and retaining staff when I hire UA graduates.

-Meg Nordale, President, GHEMM Company



Questions?

