



Workforce Supply
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The Demand for AMTs

- Aeronautical Repair Station Association member survey: 67% will hire additional workers in the coming year, three-quarters of those report at least some difficulty finding qualified people
- AMTS survey respondents reported a student-placement rate of 76% upon graduation
- CAVOK Group, a division of Oliver-Wyman, report – coming soon

Government Perspective

[GAO Report 14-237](#): *“Data provide less support for a shortage of aircraft mechanics; while the occupation has had a low unemployment rate, both employment and earnings have stayed about the same, **suggesting that demand for this occupation has not outstripped supply.**”*
(emphasis added)

Government Perspective

- Mynextmove.org is an interactive tool for job seekers and students to learn more about their career options, sponsored by the DOL
- Summary for “Aircraft Mechanics & Service Technicians”

Aircraft Mechanics & Service Technicians

Also called: Aircraft Mechanic, Aircraft Technician, Airframe and Powerplant Mechanic (A and P Mechanic), Aviation Mechanic

What they do:

Diagnose, adjust, repair, or overhaul aircraft engines and assemblies, such as hydraulic and pneumatic systems. Includes helicopter and aircraft engine specialists.

On the job, you would:

- Examine and inspect aircraft components, including landing gear, hydraulic systems, and deicers to locate cracks, breaks, leaks, or other problems.
- Conduct routine and special inspections as required by regulations.
- Inspect completed work to certify that maintenance meets standards and that aircraft are ready for operation.

KNOWLEDGE

Engineering and Technology

- mechanical
- product and service development

Arts and Humanities

- English language

Business

- customer service

Math and Science

- arithmetic, algebra, geometry, calculus, or statistics

SKILLS

Basic Skills

- thinking about the pros and cons of different ways to solve a problem
- reading work related information

Problem Solving

- noticing a problem and figuring out the best way to solve it

Technical

- planning and doing the basic maintenance on equipment
- repairing machines or systems using the right tools

ABILITIES

Hand and Finger Use

- put together small parts with your fingers
- hold or move items with your hands

Verbal

- read and understand what is written
- communicate by speaking

Ideas and Logic

- notice when problems happen
- order or arrange things

Controlled Movement

- quickly change the controls of a machine, car, truck or boat

PERSONALITY

People interested in this work like activities that include **practical, hands-on** problems and solutions.

They do well at jobs that need:

- **Attention to Detail**
- **Integrity**
- **Dependability**
- **Persistence**
- **Self Control**
- **Adaptability/Flexibility**

TECHNOLOGY

You might use software like this on the job:

Facilities management software

- Access Software AIRPAX
- Maintenance information databases

Data base user interface and query software

- Metis Systems MainTrack
- Mxi Technologies Maintenix

Analytical or scientific software

- CaseBank SpotLight
- CynapSys Virtual DER

EDUCATION



certificate after high school or associate's degree usually needed

Get started on your career:



JOB OUTLOOK



New job opportunities are **less likely** in the future.

SALARY:
\$58,370
per year, on average



EXPLORE MORE

- [Automotive Specialty Technicians](#)
- [Chemical Plant & System Operators](#)
- [Elevator Installers & Repairers](#)
- [Industrial Machinery Mechanics](#)
- [Mobile Heavy Equipment Mechanics](#)

You might like a career in one of these industries:

- [Transportation & Storage](#)
- [Manufacturing](#)
- [Government](#)

See more details at [O*NET OnLine](#) about aircraft mechanics and service technicians.

POLICY SOLUTIONS FOR A STRONGER TECHNICAL WORKFORCE

THE COLLEGE OF WILLIAM & MARY
THOMAS JEFFERSON PROGRAM IN PUBLIC POLICY
WILLIAMSBURG, VIRGINIA

2014



Research found no conclusive evidence of a shortage in any region. Right back where the GAO left off. Why?

- Aging workforce hasn't yet begun to fulfill the retirement promise (but it's looming)
- While unemployment rate is low, wages have been relatively flat
- The growing technical workforce demand, coupled with the transferability of maintenance and electronic skills sets, has led to heightened competition among industries for the growing number of graduates
- Inaccurate, unreliable, incorrectly constructed data sources

Defining the Workforce Crises

- Currently, all maintenance technicians (except for avionics) all fall into single “detailed occupation” under the standard occupational classification (SOC)
- No differentiation for certification level, authority or responsibilities
- All government statistical agencies (including BLS and GAO) rely on these classifications
- Lead coalition that [submitted comments](#) to SOC Policy Committee; awaiting second round of comments solicitation

2016 AMTS Survey

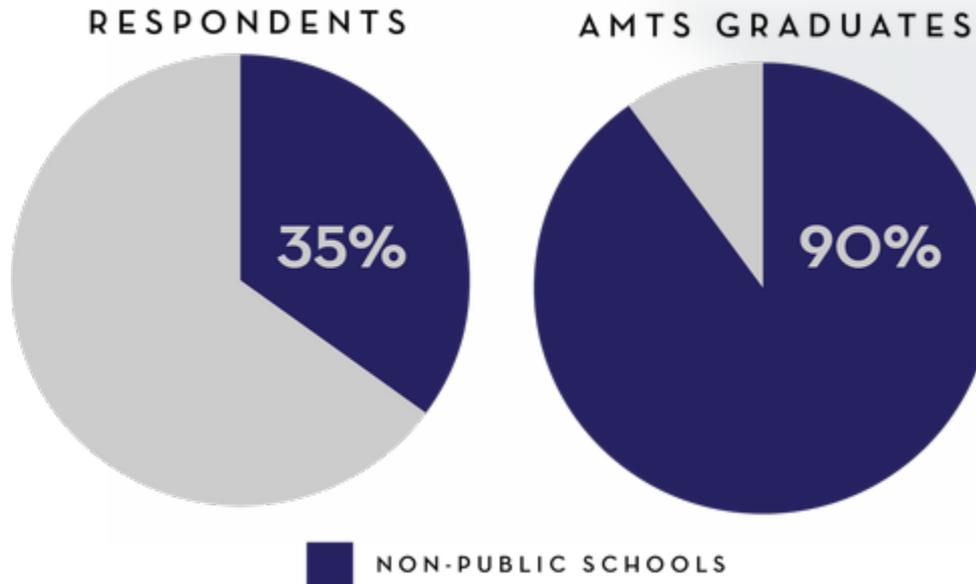
- Out of the 175 FAA-certificated AMT, 59 participated, giving the survey an 11% margin of error
- Half of respondents provide stand-alone, aviation-related programs, including avionics (24%), composites (15%), welding (15%), unmanned aircraft systems (14%), and non-destructive testing (12%)
- AMTS respondents reported a student-placement rate of 76% upon graduation—another indication of increased demand for A&Ps
- The vast majority of respondents (70%) expect their institution's enrollment to increase in the following year.
- Average beginning hourly wage for AMTS graduates across the country is between \$16-20 per hour

Key Demographics

- The community is composed mostly of smaller institutions, with 62% of survey respondents reporting fewer than 50 graduates in 2015.
- The average graduation rate was 70%.
- Of the schools that responded, 65% were public institutions (in line with the actual demographic—78% of AMTS are public schools).

Key Demographics

While non-public schools are the minority (making up 35% of respondents), they produce nearly nine out of every ten AMTS graduates



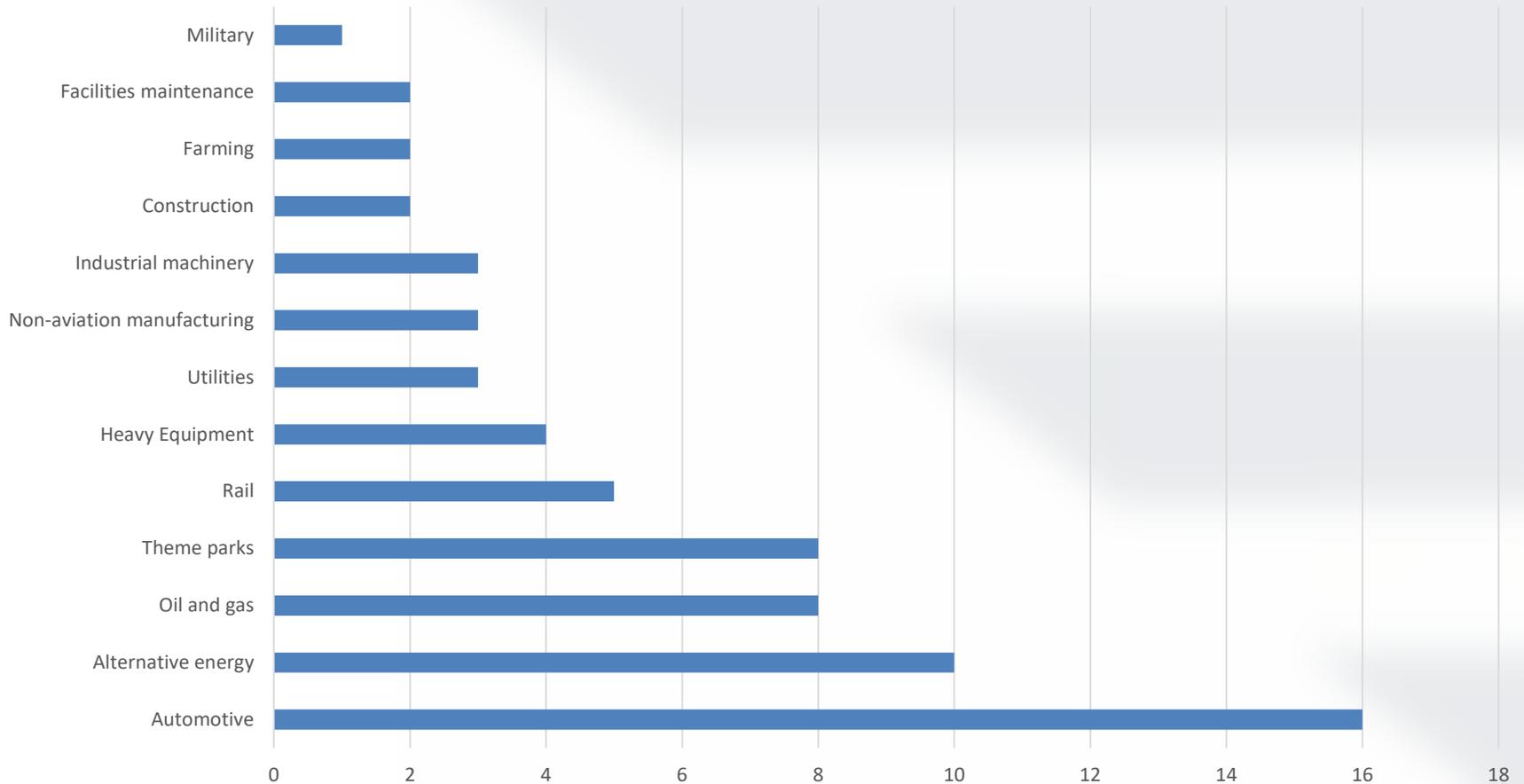
Areas of Opportunity

- Only sixty percent of graduates elect to take the A&P mechanic test.
- One in four graduates (25 percent) did not pursue a career in aviation – 700 students from response group alone

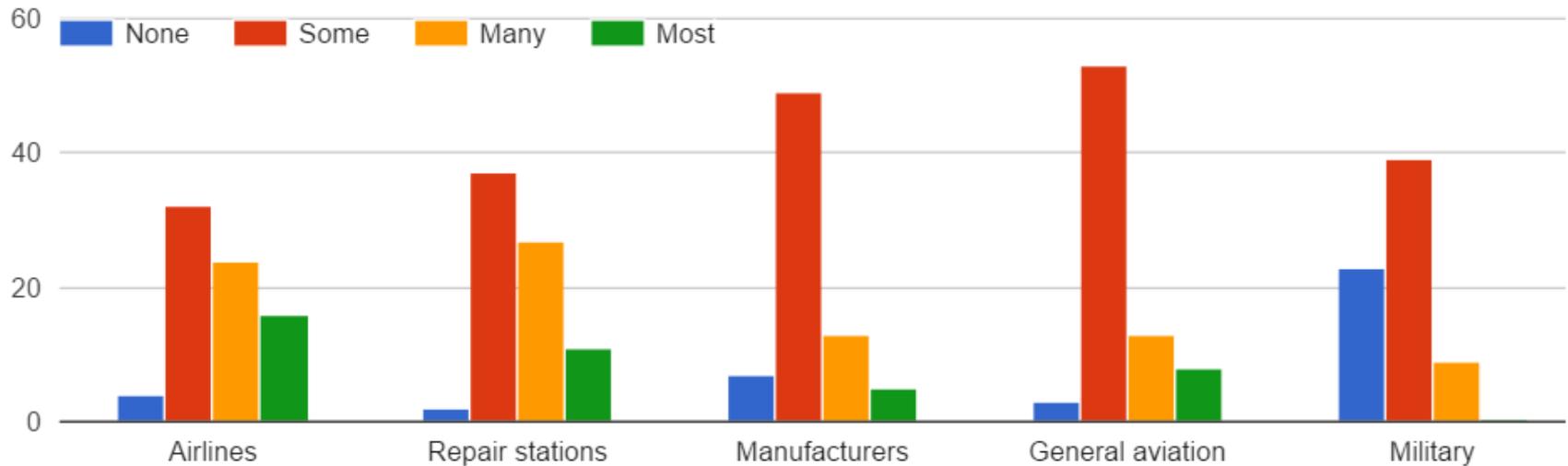


GRADUATES LOST TO OTHER
INDUSTRIES IN 2015

Non-Aviation Employers of AMTS Grads



Who is Hiring Grads?



Population of Certificate Holders (2015)

- Airmen that hold both an airframe and powerplant rating: 242,255 (trending up)
- Includes 8,419 females (trending up)
- Airmen that hold a repairman certificate: 39,363 (relatively flat)
- Examiners approved 70% of original mechanic certificate applications
- The FAA issued 3,842 certificates to students

Student Certificates Issued



Think Globally, Act Locally

- Utilize national statistics to focus efforts at home
- National workforce problems are ultimately solved when communities and get active in a planned, strategic way
- Employer expo at the Annual Conference
- [AMTS directory](#), employer resources that includes expected graduates and career development contacts for all participating AMTS

The main logo for the Aviation Technician Education Council (ATEC) is centered on the page. It consists of the letters "ATEC" in a large, bold, stylized font with horizontal wings extending from the top and bottom of the letters.

Aviation Technician Education Council

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