

# What you can do with APPLIED MATH, ENGINEERING & PHYSICS



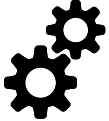
## Problem Solving

You solve quantitative and qualitative problems proficiently in a broad range of areas.



## Computational & Data Analysis

You collect and organize quantitative and qualitative data, test scientific hypotheses using these data and learn how to properly interpret statistical analysis.



## Critical Thinking

You define and analyze problems; identify factors that contribute to outcomes; recognize patterns and analyze connections to use them to make informed decisions and conclusions.



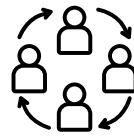
## Data Modeling

You build and interpret mathematical models for natural phenomena.



## Experimental Design & Measurement

You are able to design experiments to explore hypotheses and scientific, engineering, or technological problems, answer specific questions, properly use standard and specialized instrumentation to make measurements and quantitatively estimate the reliability of results.



## Teamwork

You build and maintain collaborative relationships with mathematicians, physical scientists, and engineers to work effectively to solve STEM problems.

## Supplement Your Skills With:



**Gain Experience:**  
Research, Internships,  
Part-Time Work &  
Data Competitions



**Ethical Conduct in  
Data Analysis &  
Privacy**



**Career & Self  
Development**



**Oral & Written  
Communication With  
the Public**



**Experience Fostering  
Professional Equity &  
Inclusion**

## Chart Your Path Forward

### Activate Your Handshake Account

for connections to jobs,  
internships, employer &  
alumni networking.

### Explore Career Communities

to discover a wide variety of  
fields where you can turn your  
degree into success.

### Get Career & Internship Advising

from SuccessWorks to make a  
plan, whether you're a first-year  
student or about to graduate.

**Get Started: [successworks.wisc.edu](https://successworks.wisc.edu)**

# Put your AMEP major to **WORK**

## Common Job Titles of Alumni

- Aerospace Engineer
- Business Owner/Founder
- Consultant
- Data Scientist
- Director
- Electrical Engineer
- Engineer
- Software Engineer
- Professor
- Research Scientist
- Systems Engineer
- Technical Account Manager
- Technology & Research Analyst
- Test Engineer



## Top Employers of Alumni

- AG Growth International
- Amazon
- Arbon Equipment Corporation
- Berkeley Lab
- Boeing
- Boston Scientific
- Citi
- Collins Aerospace
- Deepmind
- Epic
- Exact Sciences
- GE Healthcare
- Kimberly Clark
- Lockheed Martin
- Microsoft
- NASA
- Phoenix, LLC
- SpaceX
- Tesla
- University of Wisconsin-Madison

## Recent Grads' Career Plans:

- 56%** Continuing Education or Grad School
- 40%** Employment
- 1%** Military
- 1%** Volunteer/Service Program
- 2%** Other

## Recent Grads' Employment Sector

1. Information Technology
2. Education
3. Life Sciences
4. Manufacturing
5. Defense & Space
6. Aviation & Aerospace
7. Finance
8. Research
9. Electronic Manufacturing
10. Engineering

## Where Alumni Live & Work

- 31%** Wisconsin
- 15%** California
- 9%** Illinois
- 6%** Minnesota
- 6%** Colorado
- 33%** Other



"I use my AMEP degree every day as a technical lead and project manager! Seeing how math, engineering, and physics all come together helps develop a foundation for understanding how a variety of diverse teams and components all come together, and how to 'speak the language' across multiple disciplines."

**Andrew Dickerson, 2017**

Satellite Systems Engineer Staff  
Mult Func Engineering & Science Associate Manager,  
Lockheed Martin Space  
Springfield, VA



"The broad experience gained in the AMEP program enables me to better understand complex systems every day. Math, engineering, and physics are so interrelated that having a background in each makes you a much stronger candidate, no matter which of the three topics your career focuses on."

**Eric Hestekin, 2014**

Data and Strategy Engineer, Arrow McLaren SP  
Seattle, WA

## Career Communities for AMEP

SuccessWorks has eight Career Communities to connect you with career advising, resources, and programs. Here are a few suggestions on where AMEP students can start.

- Technology, Data & Analytics
- Scientific Research
- Government, Policy, International Affairs & Law
- Consulting, Finance & Business Roles

Not inspired by these options? Visit SuccessWorks to explore more widely.

[successworks.wisc.edu](https://successworks.wisc.edu)