

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.



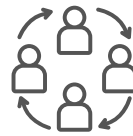
Data Modeling

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

Put AMEP to WORK

Frequent Job Titles of Alumni:

- Aerospace Engineer
- Business Owner
- Chief Executive Officer
- Data Scientist
- Director
- Electrical Engineer
- Engineering & Development Director
- Founder
- Principal Engineer
- Professor
- Senior Advisor
- Software Engineer
- Technical Account Manager



Top Employers of Alumni:

- Amazon
- Apple
- Berkeley Lab
- Boston Scientific
- CDW
- Collins Aerospace
- Columbia University (NY)
- Electronic Theatre Controls
- Epic
- Esker Inc.
- Exact Sciences
- Expedia Group
- GE Healthcare
- Google
- Lockheed Martin
- Microsoft
- NASA
- Phoenix, LLC
- University of Washington
- University of Wisconsin-Madison

Recent Grads' Career Plans:

- 53%** Continuing Education or Grad School
- 41%** Employment
- 6%** Military Service

Recent Grads' Employment Sector:

1. Aviation & Aerospace
2. Defense & Space
3. Engineering
4. Information Technology
5. Life Sciences
6. Manufacturing

Where Alumni Live & Work:

- 31%** Wisconsin
- 15%** California
- 8%** Illinois
- 7%** Colorado
- 39%** 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
Systems Engineer, Boeing
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.

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

- Technology, Data & Analytics
- Scientific Research & Development
- Government, Policy, International Affairs & Law
- Consulting, Finance, Management & Client Relations

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