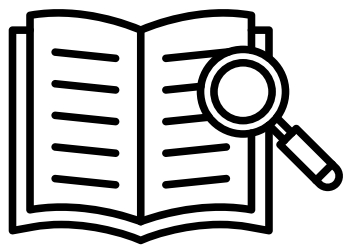
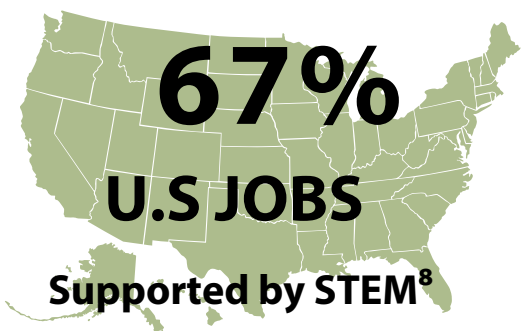


AGRICULTURE CAREERS IN STEM



STEM is defined as a cluster of technical jobs in the key industries of science, technology, engineering, and mathematics¹.



\$2.3
TRILLION

Annual federal tax revenue generated by STEM jobs⁸

CAREERS IN AGRICULTURE



AGRITECH

Integrate technology with agriculture to improve results; this career path includes robotics, food, and environmental engineers².



GENETICS

Innovate the genetics of plants and animals to enhance traits, including yield, disease resistance, and nutritional value³.



DATA SCIENCE

Make an impact on modern agriculture, from optimizing soil management to predicting crop yields².



SUSTAINABLE SOLUTIONS

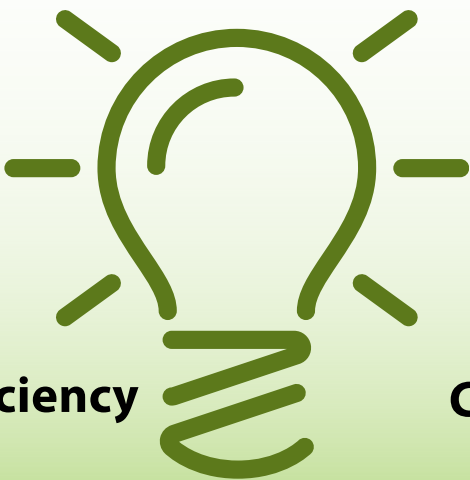
Develop environmentally friendly practices, including vertical farming and the use of byproducts³.

KEY SKILLS & COMPETENCIES

Research

Problem Solving

Technology Proficiency



Analytical Thinking

Collaboration & Teamwork

Communication

Adaptability



EDUCATION & TRAINING

- High school math, science, computer science, and FFA or 4-H
- Associate's degree in agricultural science⁴, agribusiness, or environmental science
- Bachelor's degree in agricultural engineering, plant or animal science, or biotechnology³
- On-the-job training through internships, apprenticeships, job shadowing, and more

1. U.S. Bureau of Labor Statistics. (2024, August 29). Employment in STEM occupations. U.S. Bureau of Labor Statistics. <https://www.bls.gov/emp/tables/stem-employment.htm>
2. Meers Louise. 9 November 2021. The Stem in Agriculture. Careers with STEM. [The STEM in agriculture - Careers with STEM](#)
3. Tucker Danielle. 12 September 2017. STEM is Agriculture. AG Careers.com. [STEM is Agriculture | AgCareers.com](#)
4. Coursera Staff. 5 November 2024. In Demand STEM Careers. Coursera. [In Demand STEM Careers | Coursera](#).
5. Agriculture Certificate. Southeastern Community College. [Agriculture, Modern Food Production, and the Environment - Certificate](#)
6. Sustainable Agriculture – One Year Certificate. Lorain County Community College. [Sustainable Agriculture – One Year Certificate - Science and Math Programs](#)
7. Gain the Skills Needed to Join the Agroforest Industry. Eastern Kentucky University. [Certificate in Crops, Soils & Natural Resources - Eastern Kentucky University](#)
8. Bouchrika, I. (2024, October 24). STEM careers: 2024 guide to career paths, options & salary. Research.com. <https://research.com/careers/stem-careers#1>