

Biological Agricultural Engineering & Technology Education

BS in Biological Engineering

Graduating from NCSU you are an engineer with the potential for an average starting **salary of \$45,000 a year.**

The BE program is ABET accredited (www.abet.org).

Biological Engineers develop solutions to problems in Biological and Agricultural Systems.

Three concentration areas in this (BE) program:

- **Environmental Engineering** management and protection of natural resources by minimizing soil erosion, reducing waste and pollution, and improving air and water quality.
- **Bioprocess Engineering** involves using living cell systems for the production of useful products.
- **Agricultural Engineering** design of machinery and agricultural buildings to reduce labor, improve sustainability, and lessen the environmental impact of farming.

These environmental engineering students are populating a new wetland area with plants.



Bioprocess engineers develop efficient ways to produce useful products such as biofuels, enzymes, antibiotics, vaccines, food and beverages.



Agricultural engineering students adjust a remote control mowing system that uses GPS technology. One day field crops might be cut by small, autonomous robotic farm machinery controlled by a central computer.



BAE Students may apply for scholarships in the BAE Department, the College of Agriculture and Life Sciences, and the College of Engineering.

BS in Agricultural & Environmental Technology

AET program graduates have the potential to earn a average starting **salary of \$35,000** a year. Those with troubleshooting skills in technologies like precision agriculture/GPS systems and environmental equipment monitoring are in high demand.

The AET program focuses on the application of technology, to agricultural and environmental systems. Students study precision agriculture, electronic controls, farm production, machinery, building structures, agribusiness management and environmental issues.

AET Students work with a GPS Field Backpack System.

A portable tabletop pesticide application mixing system is set up by a technology student.



"We Bring Engineering to Life"

