

# ENVIRONMENT, AG SCIENCE & ENGINEERING (EASE)



## *Did you know...*

This project is designed for 4-H members who enjoy learning about their environment, solving problems using engineering skills, tinkering with and fixing things, and thinking about long-term sustainability.

## *What can I do...*

- Give a demonstration on designing a landscape for water conservation and protecting nature
- Give a speech on engineering and sustainability
- Join a group that is reducing waste and promoting sustainable use of resources

## *Check this out...*

Did you know that engineers can do all of these things:

- Program drones to determine just the right amount of fertilizer to grow cotton that goes into our clothes
- Creates systems that turn wooden pallets into energy for your home and additives to improve soil
- Design wetlands to protect our rivers and drinking water
- Turn wastewater into fertilizers that is used to grow crops
- Design farm equipment that is safe and improves farm efficiency

Look up the term, “sustainability.” What does it mean? Write in the space below.



## *Future Thoughts...*

What kind of career would someone in the EASE project pursue?

- Biosystems Engineer, Ag Engineer, or Ecological Engineer
- Farmer
- Conservationist
- Environmental Scientist or a Soil Scientist
- Teacher or University Professor

Do you know what all of these professions do in their job? If not, do some research and dig a little deeper.

## *Work on this...*

In the future, farms will probably look a lot different than they do now. Technology and innovation will help us meet the needs of our growing population. Draw a picture of your vision for a farm of the future.

What are some barriers to sustainably growing enough food without harming the environment?

## *What's Next?*

Contact your local 4-H Agent on other ways you can get involved with this project and with 4-H.

- Community service projects
- Start a project group that focuses on the environment
- Attend 4-H Congress when you are in the 9<sup>th</sup> or 10<sup>th</sup> grade
- Begin preparing to turn in a portfolio in this project area
- Start taking action photos of you doing activities in this project area