This diverse Career Cluster prepares learners for careers in the planning, implementation, production, management, processing and/or marketing of agricultural commodities and services, including food, fiber, wood products, natural resources, horticulture, and other plant and animal products. It also includes related professional, technical, and educational services.

Pathway Descriptions

**Agribusiness Systems** workers use technology to coordinate all activities that contribute to production, processing, marketing, distribution, financing, and development of agricultural commodities.

**Animal Systems** workers study genetics, nutrition, reproduction, growth, and development of food and companion animals. They inspect and grade livestock food products, purchase livestock, or work in sales or marketing.

**Environmental Service Systems** workers are involved in pollution control, recycling, waste disposal, and public health. They conduct hazardous-waste management studies, analysis, and research environmental projects.

**Food Products and Processing Systems** workers discover new food sources, analyze and develop ways to process, preserve, package or store food. They create new food products and inspect food-processing to ensure sanitation, safety, quality, and waste management standards are met.

**Natural Resources Systems** workers help to develop, maintain, and manage the forest and natural environment. Conservation scientists and foresters manage, develop, and help protect these natural resources.

**Plant Systems** workers develop ways to improve the nutritional value and aesthetic of plants and quality of seeds. They use genetic engineering to develop pest and drought resistant plants helping producers while conserving natural resources and maintaining the environment.

**Power, Structural, and Technical Systems** workers apply knowledge of engineering, hydraulics, pneumatics, electronics, power, structures, and controls to the field of agriculture. They develop conservation of soil and water to improve the processing of agricultural products.

For additional Career Cluster Information visit: [www.nebraskacareerconnections.org](http://www.nebraskacareerconnections.org)
Postsecondary Options: Agriculture, Food, and Natural Resources

Students preparing for a career in the Agriculture, Food, and Natural Resources Career Cluster have a variety of postsecondary options. Education and training can be obtained through on-the-job training, technical colleges, two-year community colleges, four-year colleges/universities, and apprenticeship programs. They can enter programs leading to a certificate or a degree at the associate, baccalaureate, or advanced degree level. The table below shows examples of postsecondary Agriculture, Food, and Natural Resources programs of study organized by pathway.

For additional information on the Agriculture, Food, and Natural Resources Career Cluster please contact:

Matt Kreifels
Agriculture, Food, and Natural Resources
Career Field Specialist
Nebraska Department of Education
301 Centennial Mall South
Lincoln, NE 68509
Phone: 402-471-2451
Email: matt.kreifels@nebraska.gov
Web: www.neaged.org