People with careers in the Power, Structural, and Technical Systems pathway apply knowledge of engineering, hydraulics, pneumatics, electronics, power, structures and controls to the field of agriculture. One might design agricultural structures as well as machinery and equipment. They develop ways to conserve soil and water and to improve the processing of agricultural products.

Employment of individuals in the Power, Structural and Technical Systems pathway is expected to grow at about the same pace as the average for all occupations through 2010. Increasing demand for agricultural products, continued efforts for more efficient agricultural production and increasing emphasis on the conserving of resources should result in increased job opportunities in the coming years.

Major Courses
Students must take THREE pathway concentration courses and ONE additional pathway elective course.

Pathway Concentration Courses (3):
- Agricultural Mechanics Technology I
- Agricultural Mechanics Technology II
- Agricultural Mechanics Technology III

Pathway Elective Courses (1):
- Apprenticeship/Internship
- Arc Welding Process I
- Introduction to Manuf/Engineering Sciences
- Introduction to Precision Machining

Other Recommended Courses
- Chemistry
- Computing in the Modern World
- Electrical Systems
- Environmental Science
- Foundations of Engineering & Technology
- Physics

Post-Secondary Degrees, Diplomas, & Certificates

Technical Colleges
- Electrical Controls
- Heavy Equipment Technology
- Industrial Mechanical Technician
- Mechanical Controls
- Welding and Joining Technology

-Colleges/Universities
- Agriculture
- Agricultural Engineering
- Agricultural Technologies
- Agriscience and Environmental Systems

Waste Water Treatment Plant Operator
Agricultural Applications Software Programmer
Global Positioning System Technician
Heavy Equipment Maintenance Technician
Computer Service Technical Support Technician
Agricultural Applications Software Developer

Equipment Parts Manager
Communication Technician
Database Administrator
Remote Sensing Specialist
Information Lab Specialist
Electronics Systems Technician

Agricultural Engineer
Recycling Technician
Machine Operator
Welder
Machinist
Engineering Specialist

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* Pre-requisites noted in course descriptions.