Focusing Education on the Future! CAREER PATHWAY POWER, STRUCTURAL & TECHNICAL SYSTEMS Dual or Tech/Career Seal

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.

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
- Industrial Mechanical •
- Technician Mechanical Controls
- Welding and Joining
- Technology
- Agriculture
 Agricultural
 - Engineering

Colleges/Universities

- 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 EngineerCRecycling TechnicianAMachine OperatorRWelderBMachinistEEngineering SpecialistR

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EMPLOYMENT OUTLOOK

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.