

AGRICULTURAL ENGINEER





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<http://www.fusiongrant.org/educational.php>

Description

Agricultural engineers solve agricultural problems by designing agricultural machinery and facilities such as:

- Tractors
- Implements
- Animal confinements
- Storage and handling facilities
- Irrigation and drainage systems

Median Wage (as of 2005):

\$66,370

Level of Education Needed:

B.S., M.S., Ph.D.

Examples of Colleges & Affiliated Programs:

Cornell University – Materials Science; Chemical, Biomolecular, Electrical, and Computer Engineering; Biological and Environmental Engineering; Operations Research and Industrial Engineering; Mechanical and Aerospace Engineering; Animal and Plant Sciences

Rochester Institute of Technology (RIT) – Electrical, Mechanical, and Materials Science Engineering

Keuka College – Biology, Physics, Mathematics, Chemistry, and Environmental Sciences

Employers:

Federal and State Governments – USDA; Department of Energy, New York State Department of Agriculture & Markets

Consulting Firms

Manufacturers of Control Systems and Measuring Devices

Power Utilities – National Grid; New York State Electric and Gas (NYSEG)

Alternative Fuel Producers – Northeast Biofuels; Empire Biofuels

Builders of Storage Facilities, Farmsteads, Commercial Buildings – Christa Construction; Morton Buildings

Agricultural Machinery Companies – Byron Equipment; John Deere; Case International

Manufacturers of Bio-Based Products – Bioworks, Inc.; BioCube, Inc.

Irrigation and Drainage System Manufacturers – International Irrigation Systems, Inc.

High School/College Courses to take:

Mathematics, Physics, Chemistry, English, Oral/Written Communication, Leadership/Entrepreneurship, Engineering & Computer Science courses including:

- Heat flow, Environmental engineering
- Water movement, Fluid mechanics, Instrumentation, Controls
- Properties of agricultural materials, Engineering analysis and design



Cornell University