Design, build and sell lawn ornaments.

**Is this right for me?**
- Would I enjoy working with this project?
- Do I currently have, or have access to, needed resources for this project?

**Where could I take this project?**
- Operate a lawn maintenance/mowing service.
- Start a leaf collection service in the fall and sell mulch in the spring.
- Create hands-on classroom activities.

**Future Careers (visit AgExplorer.com):**
- Landscape Designer
- Welder
- Marketing Specialist

---

Operate a lawnmower service and repair business.

**Is this right for me?**
- Would I enjoy working with this project?
- Do I currently have, or have access to, needed resources for this project?

**Where could I take this project?**
- Operate a lawn maintenance/mowing service.
- Create a teaching model to show how a small gas engine works.
- Work for a small engine repair shop—overhaul and repair.

**Future Careers (visit AgExplorer.com):**
- Agriculture Science Teacher
- Landscape Technician
- Maintenance/Service Technician

---

Build garden sheds for homeowners.

**Is this right for me?**
- Would I enjoy working with this project?
- Do I currently have, or have access to, needed resources for this project?

**Where could I take this project?**
- Run a custom fence-building and repair business.
- Complete home- or farmstead-improvement construction activities.
- Conduct composting workshops for homeowners.

**Future Careers (visit AgExplorer.com):**
- Carpenter/Laborer
- Welder
- Customer Service Representative

---

Start a custom spraying service that utilizes GPS.

**Is this right for me?**
- Would I enjoy working with this project?
- Do I currently have, or have access to, needed resources for this project?

**Where could I take this project?**
- Conduct a field demonstration on GPS systems for elementary students.
- Map fields, weeds, etc. for producers using GPS and GIS.
- Study the effects of excessive lawn chemicals on wildlife.

**Future Careers (visit AgExplorer.com):**
- Custom Applicator
- Aerial Applicator/Agricultural Pilot
- Precision Agriculture Specialist
Design custom computer programs using Excel or other software to solve problems for producers.

Is this right for me?
» Would I enjoy working with this project?
» Do I currently have, or have access to, needed resources for this project?

Where could I take this project?
» Volunteer to design a website for a local agriculture group.
» Research the differences among farm management software systems.
» Provide basic internet and email training to producers to increase their level of confidence in using technology.

Future Careers (visit AgExplorer.com):
- Information Technology Configurator
- Information Technology Software Developer
- Information Technology Programmer

POWER, STRUCTURAL & TECHNICAL SYSTEMS

Map fields, weeds, etc. for producers using GPS and GIS.

Is this right for me?
» Would I enjoy working with this project?
» Do I currently have, or have access to, needed resources for this project?

Where could I take this project?
» Conduct a field demonstration on GPS systems for elementary students.
» Assist with GPS mapping for an agronomic services company.
» Prepare a 10-minute presentation on GIS mapping for forestry, wildlife, soil and water management.

Future Careers (visit AgExplorer.com):
- Precision Agriculture Specialist
- Geospatial Analytics Scientist
- Ecologist

POWER, STRUCTURAL & TECHNICAL SYSTEMS

Provide basic internet and email training to producers to increase their level of confidence in using technology.

Is this right for me?
» Would I enjoy working with this project?
» Do I currently have, or have access to, needed resources for this project?

Where could I take this project?
» Volunteer to do website and brochure development for local agricultural businesses.
» Start a basic computer help service for area agriculture producers.
» Design custom computer programs using Excel or other software to solve problems for producers.

Future Careers (visit AgExplorer.com):
- Information Technology Specialist
- Customer Service Representative
- Agriculture Science Teacher

POWER, STRUCTURAL & TECHNICAL SYSTEMS

Operate a business that computerizes farmers’ records.

Is this right for me?
» Would I enjoy working with this project?
» Do I currently have, or have access to, needed resources for this project?

Where could I take this project?
» Research the differences among farm management software systems.
» Design custom computer programs using Excel or other software to solve problems for producers.
» Work for a local tax accountant who handles agriculture customers.

Future Careers (visit AgExplorer.com):
- Agriculture Financial Service Representative
- Accounting Manager
- Information Technology Specialist
Run a custom fence-building and repair business.

Is this right for me?
» Would I enjoy working with this project?
» Do I currently have, or have access to, needed resources for this project?

Where could I take this project?
» Complete home- or farmstead-improvement construction activities.
» Build garden sheds for homeowners.
» Work for an irrigation service company.

Future Careers (visit AgExplorer.com):
Carpenter/Laborer | Maintenance/Service Technician | Herdsman

Power, Structural & Technical Systems

Work as a diesel mechanic assistant.

Is this right for me?
» Would I enjoy working with this project?
» Do I currently have, or have access to, needed resources for this project?

Where could I take this project?
» Machine and rebuild engine parts for agricultural equipment.
» Work as an assistant for an auto, truck or tractor mechanic.
» Create a teaching model to show how a small gas engine works.

Future Careers (visit AgExplorer.com):
Mechanical Engineer | Maintenance/Service Technician | Hydraulic Technician

Power, Structural & Technical Systems

Restore a tractor and sell it or restore a tractor for someone else.

Is this right for me?
» Would I enjoy working with this project?
» Do I currently have, or have access to, needed resources for this project?

Where could I take this project?
» Machine and rebuild engine parts for agricultural equipment.
» Construct prototypes of hydraulic systems.
» Work as an assistant for an auto, truck or tractor mechanic.

Future Careers (visit AgExplorer.com):
Hydraulic Technician | Maintenance/Service Technician | Mechanical Engineer

Power, Structural & Technical Systems

Work for an irrigation service company.

Is this right for me?
» Would I enjoy working with this project?
» Do I currently have, or have access to, needed resources for this project?

Where could I take this project?
» Research the water savings accomplished by new irrigation technologies.
» Own and operate a water system farm drainage (tilling) company.
» Research the cost-versus-return of automating systems in an agricultural processing facility.

Future Careers (visit AgExplorer.com):
Irrigation Specialist | Customer Service Representative | Hydrologist

Power, Structural & Technical Systems
Assist with GPS mapping for an agronomic services company.

**Is this right for me?**
- Would I enjoy working with this project?
- Do I currently have, or have access to, needed resources for this project?

**Where could I take this project?**
- Conduct a field demonstration on GPS systems for elementary students.
- Start a custom spraying service that utilizes GPS.
- Prepare a 10-minute presentation on GIS mapping for forestry, wildlife, soil and water management.

**Future Careers** (visit AgExplorer.com):
- Precision Agriculture Specialist
- Geospatial Analytics Scientist
- Ecologist

**Future Careers** (visit AgExplorer.com):
- Welder
- Agriculture Science Teacher
- Customer Service Representative

---

Work in a welding shop.

**Is this right for me?**
- Would I enjoy working with this project?
- Do I currently have, or have access to, needed resources for this project?

**Where could I take this project?**
- Test the strength of different types of welds.
- Design, build and sell lawn ornaments.
- Create a demonstration model that shows proper and improper welding techniques.

**Future Careers** (visit AgExplorer.com):
- Electroplating Apprentice
- Powder Coating Apprentice
- Systems Integrator

---

Work as an assistant for an auto, truck or tractor mechanic.

**Is this right for me?**
- Would I enjoy working with this project?
- Do I currently have, or have access to, needed resources for this project?

**Where could I take this project?**
- Operate a lawnmower service and repair business.
- Restore a tractor and sell it or restore a tractor for someone else.
- Machine and rebuild engine parts for agricultural equipment.

**Future Careers** (visit AgExplorer.com):
- Hydraulic Technician
- Maintenance/Service Technician
- Mechanical Engineer

---

Work for a local electrician in agricultural settings.

**Is this right for me?**
- Would I enjoy working with this project?
- Do I currently have, or have access to, needed resources for this project?

**Where could I take this project?**
- Wire agricultural buildings for lights and receptacles.
- Research the energy use of different types of lighting systems in farm buildings.
- Create hands-on classroom activities.

**Future Careers** (visit AgExplorer.com):
- Electrical Engineer
- Electrician/Electronics Technician
- Automation Technician/Coordinator
Pour concrete forms for machine sheds or other agricultural buildings.

Is this right for me?
- Would I enjoy working with this project?
- Do I currently have, or have access to, needed resources for this project?

Where could I take this project?
- Work for a local cement company that installs agricultural applications.
- Complete home- or farmstead-improvement construction activities.
- Create hands-on classroom activities.

Future Careers (visit AgExplorer.com): Future Careers (visit AgExplorer.com):
Truck Driver | Hydraulic Technician | Carpenter/Laborer

POWER, STRUCTURAL & TECHNICAL SYSTEMS

Wire agricultural buildings for lights and receptacles.

Is this right for me?
- Would I enjoy working with this project?
- Do I currently have, or have access to, needed resources for this project?

Where could I take this project?
- Work for a local electrician in agricultural settings.
- Research the energy use of different types of lighting systems in farm buildings.
- Create hands-on classroom activities.

Future Careers (visit AgExplorer.com):
Electrical Engineer | Electrician/Electronics Technician | Automation Technician/Coordinator

POWER, STRUCTURAL & TECHNICAL SYSTEMS

Work on plumbing waste systems and air and water systems in agricultural settings.

Is this right for me?
- Would I enjoy working with this project?
- Do I currently have, or have access to, needed resources for this project?

Where could I take this project?
- Study pollution control practices.
- Work for a plumbing business in an agricultural setting.
- Work as a trencher for waste-water lagoons.

Future Careers (visit AgExplorer.com):
Maintenance/Service Technician | Occupational Health and Safety Manager | Sanitation Coordinator

POWER, STRUCTURAL & TECHNICAL SYSTEMS

Provide maintenance for school shop equipment.

Is this right for me?
- Would I enjoy working with this project?
- Do I currently have, or have access to, needed resources for this project?

Where could I take this project?
- Manage the steel inventory in the agriculture shop.
- Create a teaching model to show how a small gas engine works.
- Create a demonstration model that shows proper and improper welding techniques.

Future Careers (visit AgExplorer.com):
Agriculture Science Teacher | Maintenance/Service Technician | Hydraulic Technician

POWER, STRUCTURAL & TECHNICAL SYSTEMS
Manage the steel inventory in the agriculture shop.

Is this right for me?
» Would I enjoy working with this project?
» Do I currently have, or have access to, needed resources for this project?

Where could I take this project?
» Test the strength of different types of welds.
» Create a teaching model to show how a small gas engine works.
» Create a demonstration model that shows proper and improper welding techniques.

Future Careers (visit AgExplorer.com):
Agriculture Science Teacher | Inventory/Stock Specialist | Warehouse/Facility Manager

POWER, STRUCTURAL & TECHNICAL SYSTEMS

Work for a small engine repair shop—overhaul and repair.

Is this right for me?
» Would I enjoy working with this project?
» Do I currently have, or have access to, needed resources for this project?

Where could I take this project?
» Operate a lawnmower service and repair business.
» Create a teaching model to show how a small gas engine works.
» Machine and rebuild engine parts for agricultural equipment.

Future Careers (visit AgExplorer.com):
Maintenance/Service Technician | Mechanical Engineer | Welder

POWER, STRUCTURAL & TECHNICAL SYSTEMS

Machine and rebuild engine parts for agricultural equipment.

Is this right for me?
» Would I enjoy working with this project?
» Do I currently have, or have access to, needed resources for this project?

Where could I take this project?
» Create a teaching model to show how a small gas engine works.
» Operate a lawnmower service and repair business.
» Construct prototypes of hydraulic systems.

Future Careers (visit AgExplorer.com):
Maintenance/Service Technician | Mechanical Engineer | Welder

POWER, STRUCTURAL & TECHNICAL SYSTEMS

Work with county soil and water engineers—assist in measuring and engineer design.

Is this right for me?
» Would I enjoy working with this project?
» Do I currently have, or have access to, needed resources for this project?

Where could I take this project?
» Research the water savings accomplished by new irrigation technologies.
» Assist landowners with the installation of soil conservation practices.
» Research the adoption of technology by agriculture producers in your area.

Future Careers (visit AgExplorer.com):
Environmental Engineer | Soil Scientist | Irrigation Specialist
Work as a surveyor’s assistant.

Is this right for me?
» Would I enjoy working with this project?
» Do I currently have, or have access to, needed resources for this project?

Where could I take this project?
» Map fields, weeds, etc. for producers using GPS and GIS
» Work with county soil and water engineers - assist in measuring and engineer design.
» Study soil profiles from multiple locations in your community and develop a soil map.

Future Careers (visit AgExplorer.com):
Conservationist | Environmental Engineer | Environmental Compliance Officer

POWER, STRUCTURAL & TECHNICAL SYSTEMS

Work for a local university in the area of robotics in agriculture.

Is this right for me?
» Would I enjoy working with this project?
» Do I currently have, or have access to, needed resources for this project?

Where could I take this project?
» Interview area agriculture producers about the changes in technology over the past 50 years.
» Study the latest advancements of robotics in agriculture.
» Research the biggest challenges producers face when adopting new technology.

Future Careers (visit AgExplorer.com):
College Recruiter | Mechanical Engineer | Automation Technician/Coordinator

Work for a plumbing business in an agricultural setting.

Is this right for me?
» Would I enjoy working with this project?
» Do I currently have, or have access to, needed resources for this project?

Where could I take this project?
» Work on plumbing waste systems and air and water systems in agricultural settings.
» Complete home- or farmstead-improvement construction activities.
» Create hands-on classroom activities.

Future Careers (visit AgExplorer.com):
Sanitation Coordinator | Water Treatment Technician | Environmental Engineer

POWER, STRUCTURAL & TECHNICAL SYSTEMS

Complete home- or farmstead-improvement construction activities.

Is this right for me?
» Would I enjoy working with this project?
» Do I currently have, or have access to, needed resources for this project?

Where could I take this project?
» Design, build and sell lawn ornaments.
» Run a custom fence-building and repair business.
» Work to establish a community vegetable garden.

Future Careers (visit AgExplorer.com):
Customer Service Representative | Electrician/Electronics Technician | Welder
**Is this right for me?**
» Would I enjoy working with this project?
» Do I currently have, or have access to, needed resources for this project?

**Where could I take this project?**
» Restore a tractor and sell it or restore a tractor for someone else.
» Work as a diesel mechanic assistant.
» Machine and rebuild engine parts for agricultural equipment.

**Where could I take this project?**
» Research the biggest challenges producers face when adopting new technology.
» Research the adoption of technology by agriculture producers in your area.
» Create and produce a weekly television or radio show about FFA and agriculture.

**Future Careers (visit AgExplorer.com):**
- Wind Substation Technician
- Mechanical Engineer
- Hydraulic Technician

**POWER, STRUCTURAL & TECHNICAL SYSTEMS**

**Construct prototypes of hydraulic systems.**

**Report on all of the control systems used in a typical greenhouse.**

**Shadow a computer professional in any agriculture-related industry.**

**Is this right for me?**
» Would I enjoy working with this project?
» Do I currently have, or have access to, needed resources for this project?

**Future Careers (visit AgExplorer.com):**
- Agriculture Science Teacher
- Agriculture Journalist
- Research and Development Manager

**EXPLORATORY**
Research the adoption of technology by agriculture producers in your area.

- **Is this right for me?**
  » Would I enjoy working with this project?
  » Do I currently have, or have access to, needed resources for this project?
- **Where could I take this project?**
  » Research the biggest challenges producers face when adopting new technology.
  » Study the latest advancements of robotics in agriculture.
  » Hold a classroom demonstration on automated systems.

**Future Careers (visit AgExplorer.com):**
- Automation Technician/Coordinator
- Research Associate
- Agricultural Literacy and Advocacy Specialist

**POWER, STRUCTURAL & TECHNICAL SYSTEMS**

Test the strength of different types of welds.

- **Is this right for me?**
  » Would I enjoy working with this project?
  » Do I currently have, or have access to, needed resources for this project?
- **Where could I take this project?**
  » Design a demonstration model that shows proper and improper welding techniques.
  » Work in a welding shop.
  » Design, build and sell lawn ornaments.

**Future Careers (visit AgExplorer.com):**
- Agriculture Science Teacher
- Welder
- Research Associate

**POWERT, STRUCTURAL & TECHNICAL SYSTEMS**

Research the differences among farm management software systems.

- **Is this right for me?**
  » Would I enjoy working with this project?
  » Do I currently have, or have access to, needed resources for this project?
- **Where could I take this project?**
  » Design custom computer programs using Excel or other software to solve problems for producers.
  » Provide basic internet and email training to producers to increase their level of confidence in using technology.
  » Volunteer to do website and brochure development for local agricultural businesses.

**Future Careers (visit AgExplorer.com):**
- Information Technology Software Developer
- Information Technology Specialist
- Information Technology Analyst

**POWER, STRUCTURAL & TECHNICAL SYSTEMS**

Research the cost-versus-return of automating systems in an agricultural processing facility.

- **Is this right for me?**
  » Would I enjoy working with this project?
  » Do I currently have, or have access to, needed resources for this project?
- **Where could I take this project?**
  » Hold a classroom demonstration on automated systems.
  » Work for a local university in the area of robotics in agriculture.
  » Study the change in input costs over time for a given agricultural business.

**Future Careers (visit AgExplorer.com):**
- Automation Technician/Coordinator
- Chief Financial Officer
- Process/Continuous Improvement Manager
Study the latest advancements of robotics in agriculture.

Is this right for me?
» Would I enjoy working with this project?
» Do I currently have, or have access to, needed resources for this project?

Where could I take this project?
» Research the cost-versus-return of automating systems in an agricultural processing facility.
» Research the biggest challenges producers face when adopting new technology.
» Work for a local university in the area of robotics in agriculture.

Future Careers (visit AgExplorer.com):
Automation Technician/Coordinator | Agriculture Science Teacher | Process/Continuous Improvement Manager

POWER, STRUCTURAL & TECHNICAL SYSTEMS

Research the water savings accomplished by new irrigation technologies.

Is this right for me?
» Would I enjoy working with this project?
» Do I currently have, or have access to, needed resources for this project?

Where could I take this project?
» Work for an irrigation service provider.
» Work for a company that installs plastic drainage tile for farm fields.
» Own and operate a water system farm drainage (tilling) company.

Future Careers (visit AgExplorer.com):
Irrigation Specialist | Extension Faculty | Automation Technician/Coordinator

POWER, STRUCTURAL & TECHNICAL SYSTEMS

Research the energy use of different types of lighting systems in farm buildings.

Is this right for me?
» Would I enjoy working with this project?
» Do I currently have, or have access to, needed resources for this project?

Where could I take this project?
» Work for a local electrician in agricultural settings.
» Create hands-on classroom activities.
» Wire agricultural buildings for lights and receptacles.

Future Careers (visit AgExplorer.com):
Electrical Engineer | Electrician/Electronics Technician | Animal Caretaker/Operations Manager

POWER, STRUCTURAL & TECHNICAL SYSTEMS

Research the biggest challenges producers face when adopting new technology.

Is this right for me?
» Would I enjoy working with this project?
» Do I currently have, or have access to, needed resources for this project?

Where could I take this project?
» Interview area agriculture producers about the changes in technology over the past 50 years.
» Research the adoption of technology by agriculture producers in your area.
» Hold a classroom demonstration on automated systems.

Future Careers (visit AgExplorer.com):
Agriculture Science Teacher | Extension Faculty | Automation Technician/Coordinator

POWER, STRUCTURAL & TECHNICAL SYSTEMS
Compare and contrast the different styles of tillage equipment.

**Is this right for me?**
» Would I enjoy working with this project?
» Do I currently have or have access to needed resources for this project?

**Where could I take this project?**
» Research the effects of erosion on various cover crops.
» Operate a custom combining service.
» Work with a county soil scientist to map soils.

**Future Careers** *(visit AgExplorer.com):*
- Agriculture Science Teacher
- Heavy Equipment Operator/Forklift Operator
- Agricultural Literacy and Advocacy Specialist

**POWER, STRUCTURAL & TECHNICAL SYSTEMS**

Study the possible modifications in agricultural equipment for persons with disabilities.

**Is this right for me?**
» Would I enjoy working with this project?
» Do I currently have or have access to needed resources for this project?

**Where could I take this project?**
» Research methods for preventing common accidents in an agriculture department laboratory.
» Research the rate of accidents on area farms and compare to national averages.
» Research the cost-versus-return of automating systems in an agricultural processing facility.

**Future Careers** *(visit AgExplorer.com):*
- Agricultural Lobbyist
- Process/Continuous Improvement Manager
- Human Resources Manager