



Accountant

Skills Needed

- Attention to Detail
- Analytical Thinking
- Integrity

Foundational SAE Ideas

Manage personal finances effectively by tracking income and expenses, creating a budget and setting financial goals.

Complete courses or workshops on financial software.

Immersion SAE Ideas

Work for a local tax accountant who manages agriculture customers.

Manage finances for a school agricultural club or FFA chapter.


FFA


Accounting Manager

Skills Needed

- Leadership
- Strategic Thinking
- Problem-Solving

Foundational SAE Ideas

Research safety protocols in office environments and create a poster.

Shadow a manager in a business or accounting firm.

Immersion SAE Ideas

Intern in an agricultural company's finance department.

Study trends in agricultural accounting practices and prepare a report.


FFA


Administrative Assistant

Skills Needed

- Organizational Skills
- Adaptability
- Customer Service

Foundational SAE Ideas

Develop organizational skills through managing schedules and events.

Create a presentation for peers on administrative roles in agricultural organizations.

Immersion SAE Ideas

Intern at a farm bureau or agricultural organization to learn about administrative tasks.

Conduct a survey on administrative challenges in agricultural settings and propose solutions.


FFA


Alternative Energy Specialist

Skills Needed

- Adaptability
- Technical Skills
- Problem-Solving

Foundational SAE Ideas

Research educational pathways in renewable energy technologies at local universities.

Research safety needed for working with solar panels and other renewable energy systems.

Immersion SAE Ideas

Intern at a renewable energy company.

Conduct research on the efficiency of different renewable energy systems in agricultural settings.


FFA



Analytical Chemist

Skills Needed

- Laboratory Skills
- Safety Awareness
- Critical Thinking

Foundational SAE Ideas

Research industries where analytical chemists are employed, such as agriculture, pharmaceuticals and environmental sciences.

Identify potential hazards in a laboratory environment (e.g., chemical spills, exposure to toxic substances).

Immersion SAE Ideas

Conduct a research project focused on developing methods for detecting contaminants in agricultural products.

Partner with a local nonprofit organization focused on sustainable agriculture to conduct water quality testing in nearby agricultural areas.


FFA


Auditor

Skills Needed

- Analytical Skills
- Integrity
- Time Management

Foundational SAE Ideas

Learn about office ergonomics to create a comfortable and safe working environment, especially when working long hours at a desk.

Shadow an auditor of an agricultural business.

Immersion SAE Ideas

Intern at a local agricultural cooperative or farm supply company.

Help manage the agriculture program budget and fundraisers.


FFA


Benefits Manager

Skills Needed

- Negotiation
- Data Analysis
- Communication

Foundational SAE Ideas

Study how employee benefits are managed in agricultural businesses and create a presentation.

Research what education is needed for a career as a benefits manager and the cost for that education.

Immersion SAE Ideas

Work at a local agricultural business or cooperative.

Collaborate with a local Chamber of Commerce to organize workshops on financial wellness for small businesses and farm owners.


FFA


Biological Technician

Skills Needed

- Data Collection
- Analytical Thinking
- Safety Awareness

Foundational SAE Ideas

Research the application of biological techniques in agriculture.

Tour a biological research lab and shadow a biological technician.

Immersion SAE Ideas

Work at a local environmental consulting firm or agricultural research station.

Conduct a research project evaluating the effectiveness of organic farming practices.


FFA



Biosecurity Monitor

Skills Needed

- Risk Assessment
- Attention to Detail
- Ethical Judgment

Foundational SAE Ideas

Research how biosecurity measures protect agricultural environments.

Visit a facility that focuses on biosecurity to learn about daily operations and career opportunities.

Immersion SAE Ideas

Conduct a research project to evaluate the effectiveness of different biosecurity measures in preventing disease outbreaks in agricultural settings.

Organize workshops for local farmers or community members to educate them on best practices for biosecurity and disease prevention.


FFA


Brand Manager

Skills Needed

- Creativity
- Strategic Thinking
- Leadership

Foundational SAE Ideas

Research and develop a budget plan for a hypothetical brand marketing campaign.

Study the role of branding in agricultural products, including how effective branding can impact market success and consumer perception.

Immersion SAE Ideas

Intern with a marketing or branding agency.

Develop and manage a branding project for your FFA chapter.


FFA


Budget Analyst

Skills Needed

- Analytical Skills
- Budgeting
- Communication

Foundational SAE Ideas

Develop and manage a personal budget plan, tracking income and expenses.

Explore career opportunities in budget analysis.

Immersion SAE Ideas

Intern with an agricultural business.

Manage the budget for your local FFA chapter.


FFA


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FFA


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Immersion SAE Ideas

Intern with an agricultural business.

Manage the budget for your local FFA chapter.


FFA


Chief Executive Officer

Skills Needed

- Visionary Leadership
- Conflict Resolution
- Decision-Making

Foundational SAE Ideas

Shadow a CEO of a local agricultural business.

Research and report on local agricultural businesses, such as farmers markets or co-ops.

Immersion SAE Ideas

Start a business that connects local farms directly with consumers.

Start and manage a student-run business focused on agriculture, such as a school garden.


FFA


Chief Financial Officer

Skills Needed

- Financial Literacy
- Problem-Solving
- Integrity

Foundational SAE Ideas

Create and manage a personal budget, tracking income, expenses and savings goals.

Participate in virtual stock market games or simulation.

Immersion SAE Ideas

Intern with the finance department of an agribusiness.

Work for a farm accountant or financial manager.


FFA



Chief Operating Officer

Skills Needed

- Management
- Logistics
- Strategic Thinking

Foundational SAE Ideas

Identify a process within a school or community organization that could be improved. Propose and implement changes to enhance efficiency.

Shadow a local business manager or operations director.

Immersion SAE Ideas

Intern with the operations team of an agricultural company.

Start and manage a student-run business focused on agriculture, such as a school garden.


FFA


Climate Change Analyst

Skills Needed

- Research Skills
- Problem-Solving
- Critical Thinking

Foundational SAE Ideas

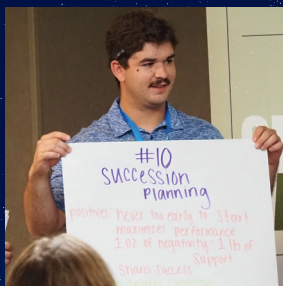
Research and write a report on current climate policies and their effectiveness in mitigating climate change.

Research how different climate scenarios impact crop yields.

Immersion SAE Ideas

Conduct a research project on local environmental issues, such as pollution or habitat loss.

Develop a project where students modify a school garden to adapt to simulated climate change scenarios.


FFA


Compensation Specialist

Skills Needed

- Negotiation
- Integrity
- Analytical Skills

Foundational SAE Ideas

Research and analyze compensation trends for different jobs in your area.

Develop a personal budget including income and expenses.

Immersion SAE Ideas

Intern with the human resources department of an agricultural business.

Research how different compensation strategies affect employee retention and satisfaction in agriculture.


FFA


Corporate Recruiter

Skills Needed

- Talent Acquisition
- Relationship Building
- Interpersonal Skills

Foundational SAE Ideas

Research current trends in recruiting for agricultural positions, including skill requirements and emerging roles in the industry.

Explore recruitment practices specific to the agriculture industry.

Immersion SAE Ideas

Organize a career fair at school focused on agricultural careers.

Intern with an agricultural recruiting firm, campus recruiter, corporate business recruiter or similar occupation.


FFA



Customer Service Representative

Skills Needed

- Order Processing
- Billing Systems
- Communication

Foundational SAE Ideas

Job shadow a local agricultural customer service or HR department.

Interview customer service representatives in various fields to understand their roles and career paths.

Immersion SAE Ideas

Design and conduct a survey to measure customer satisfaction at a local agricultural business or organization.

Develop a tool or app to help agricultural businesses collect and analyze customer feedback.



FFA



Data Processor

Skills Needed

- Data Entry
- Accuracy
- Attention to Detail

Foundational SAE Ideas

Learn about basic data security practices to ensure the safe handling of sensitive information.

Research the field of data processing, including career paths and required skills.

Immersion SAE Ideas

Work for an agricultural business to gain experience in data entry.

Develop and implement data management solutions for FFA fundraisers or events.



FFA



Dealer Services Representative

Skills Needed

- Product Knowledge
- Inventory Management
- Sales Skills

Foundational SAE Ideas

Study sales techniques and how they apply to agricultural equipment or services.

Shadow a dealer services representative.

Immersion SAE Ideas

Create and manage a mock dealer network for your high school agricultural mechanics shop.

Work for a local equipment or seed dealer.



FFA



Director of Procurement

Skills Needed

- Contract Management
- Negotiation
- Leadership

Foundational SAE Ideas

Research how procurement decisions affect agricultural businesses.

Shadow a local procurement manager or director.

Immersion SAE Ideas

Assist with community projects that involve managing supplies or resources, such as food drives.

Manage procurement and logistics for large school events or initiatives, such as fundraising events.



FFA



Environmental Educator

Skills Needed

- Curriculum Development
- Educational Technology
- Content Knowledge

Foundational SAE Ideas

Develop educational materials on sustainable agricultural practices.

Shadow an environmental educator.

Immersion SAE Ideas

Create educational resources for your local extension office to use.

Start projects that focus on improving sustainability at your school, such as recycling programs.


FFA


Environmental Engineer

Skills Needed

- Environmental Impact Assessment
- Problem-Solving
- Technical Aptitude

Foundational SAE Ideas

Research solutions for environmental challenges in agriculture.

Shadow an environmental engineer.

Immersion SAE Ideas

Develop and implement water conservation projects in your local community.

Research the effectiveness of various soil and water conservation technologies in agricultural settings.


FFA


Environmental Science and Protection Technician

Skills Needed

- Report Writing
- Data Analysis
- Data Collection

Foundational SAE Ideas

Conduct an assessment of your school's environmental impact.

Research the qualifications, skills and job prospects for environmental science and protection technicians.

Immersion SAE Ideas

Start a composting project in your agriculture department.

Research the effects of different types of composting.


FFA


Environmental Scientist and Specialist

Skills Needed

- Environmental Impact Assessment
- Safety Awareness
- Data Analysis

Foundational SAE Ideas

Investigate how different agricultural practices impact the environment.

Conduct an interview with an environmental scientist or specialist.

Immersion SAE Ideas

Develop and deliver educational programs (PowerPoint slides, Craft, Game, etc.) on environmental science for elementary students.

Develop and manage sustainability initiatives in your local school and community.


FFA



Executive Assistant

Skills Needed

- Calendar Management
- Report Writing
- Organization

Foundational SAE Ideas

Shadow an executive assistant in an agricultural business or organization.

Create an emergency response plan for an office setting.

Immersion SAE Ideas

Work for an agricultural business as an executive assistant.

Perform administrative tasks for your local agriculture department.


FFA


Export Documentation Specialist

Skills Needed

- International Trade Regulations
- Logistics
- Attention to Detail

Foundational SAE Ideas

Research the career pathways and educational requirements for export documentation specialists in the agricultural sector.

Learn about safety protocols for handling confidential export documents.

Immersion SAE Ideas

Work for a local agricultural business.

Intern with a local Chamber of Commerce or trade association.


FFA


Extension Agent

Skills Needed

- Agricultural Knowledge
- Extension Program Development
- Community Outreach

Foundational SAE Ideas

Research and present on the role of extension agents in supporting agricultural communities.

Research the average salary for extension agents and develop a personal financial plan as if you were employed in this career.

Immersion SAE Ideas

Work for your local agricultural extension program.

Start a blog or YouTube channel that focuses on agricultural education.


FFA


Extension Faculty

Skills Needed

- Subject-Matter Expertise
- Teaching
- Research Skills

Foundational SAE Ideas

Analyze and report on the effectiveness of current local, state or national extension programs.

Create a detailed plan for the educational requirements needed to become an extension faculty member.

Immersion SAE Ideas

Develop and sell agricultural education resource kits for local schools and community organizations.

Create a podcast or newsletter focusing on agricultural topics.


FFA



Farm Program Coordinator

Skills Needed

- Program Development
- Organization
- Collaboration

Foundational SAE Ideas

Learn about safety procedures for organizing and managing farm-related events.

Develop a mock budget for a farm program.

Immersion SAE Ideas

Start and manage a community garden in your local community.

Manage a student-run farm program within your agriculture department.


FFA


Fisheries Technician

Skills Needed

- Water Quality Analysis
- Data Collection
- Habitat Restoration

Foundational SAE Ideas

Develop a simple guide on monitoring fish health and common diseases in aquaculture.

Create a plan for how you will pay for your continuing education should you choose this career path.

Immersion SAE Ideas

Start a small-scale aquaculture operation in your agriculture department.

Trap minnows to sell to local bait shops.


FFA


Formulation Chemist

Skills Needed

- Chemistry
- Chemical Analysis
- Formulation Development

Foundational SAE Ideas

Research and summarize the educational requirements for becoming a formulation chemist.

Research the costs associated with obtaining a degree in chemistry or a related field and create a budget for education expenses.

Immersion SAE Ideas

Create basic, educational chemistry kits for elementary students in a monthly subscription box.

Create and sell DIY plant growth enhancer kits that include formulations for nutrient solutions and growth stimulants.


FFA


Geologist

Skills Needed

- Field Mapping and Surveying
- Environmental Stewardship
- Analytical Skills

Foundational SAE Ideas

Research how geological factors impact farming practices and land use.

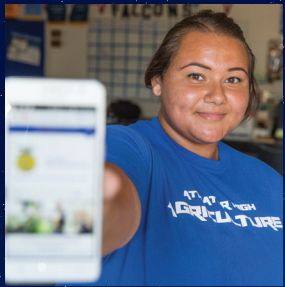
Take a field trip or virtual tour to a geological site.

Immersion SAE Ideas

Research the impact of soil erosion on agricultural productivity and land management strategies.

Start a service that offers soil testing and analysis for the school garden or local community.


FFA



Graphic Designer

Skills Needed

- Creativity
- Attention to Detail
- Time Management

Foundational SAE Ideas

Create a series of posters for agricultural events or awareness campaigns.

Create a financial plan for pursuing a career in graphic design.

Immersion SAE Ideas

Manage the marketing and design posters for your local FFA chapter.

Take on a freelance graphic design project for a local agricultural business or organization.


FFA


Human Resources Generalist

Skills Needed

- Employee Relations
- Recruitment and Selection
- Performance Management

Foundational SAE Ideas

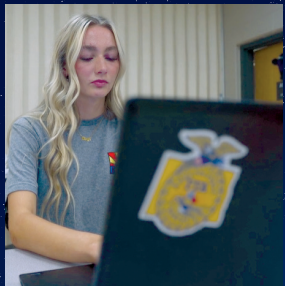
Research HR policies and procedures specific to agricultural organizations.

Research career paths within HR.

Immersion SAE Ideas

Design and conduct surveys to measure employee satisfaction in local organizations.

Work for an agricultural business in the HR department.


FFA


Human Resources Manager

Skills Needed

- Strategic Planning
- Employment Law
- Leadership Development

Foundational SAE Ideas

Shadow an HR manager.

Create a financial plan based on projected income for an HR manager role.

Immersion SAE Ideas

Develop and implement HR strategies for organizing FFA events, including team roles, task management and communication plans.

Develop and promote a diversity and inclusion program in your FFA chapter.


FFA


Hydrologist

Skills Needed

- Analytical Skills
- Problem-Solving
- Fieldwork Skills

Foundational SAE Ideas

Learn about grant writing and create a mock grant proposal.

Develop a plan to manage personal finances related to the career.

Immersion SAE Ideas

Conduct a study on the water quality in local rivers, lakes or reservoirs.

Develop and implement a water conservation project for your school.


FFA



Hydroponics Producer

Skills Needed

- Environmental Monitoring
- System Design and Installation
- Nutrient Solution Management

Foundational SAE Ideas

Compare different types of hydroponic systems and create an infographic to share the information.

Tour local hydroponics operations.

Immersion SAE Ideas

Start your own business growing and selling hydroponic vegetables.

Research the effectiveness of different types of hydroponic systems.


FFA


Information Technology (IT) Analyst

Skills Needed

- Data Analysis and Interpretation
- Network Security
- Database Management

Foundational SAE Ideas

Research and report on the role of IT in modern agriculture.

Shadow an IT analyst at a company that supports agricultural clients.

Immersion SAE Ideas

Intern with an IT consulting firm.

Program high technology equipment in your agriculture department.


FFA


Information Technology (IT) App Developer

Skills Needed

- Programming Languages
- Problem-Solving
- Attention to Detail

Foundational SAE Ideas

Interview professional app developers who work in the agriculture sector.

Research relevant certifications in app development.

Immersion SAE Ideas

Intern with a company that develops apps for the agriculture sector.

Purchase, set up and manage a Farm Bot in your agriculture department.


FFA


Information Technology (IT) Configurator

Skills Needed

- Software Installation
- Troubleshooting
- Attention to Detail

Foundational SAE Ideas

Identify certifications relevant to IT configuration.

Create a financial plan based on projected income from IT configuration roles.

Immersion SAE Ideas

Investigate how different IT configurations affect farm productivity.

Work for an agricultural business in the IT department.


FFA



Information Technology (IT) Programmer

Skills Needed

- Database Management
- Proficiency in Programming Languages
- Problem-Solving

Foundational SAE Ideas

Research career paths in IT programming within agriculture.

Shadow a professional IT programmer working in agriculture.

Immersion SAE Ideas

Work for a company that develops software for agriculture.

Develop a software application for your school's farm.


FFA


Information Technology (IT) Software Developer

Skills Needed

- Software Development
- Testing and Debugging
- Time Management

Foundational SAE Ideas

Research relevant certifications and degree programs in software development.

Research scholarship opportunities to help pay for higher education.

Immersion SAE Ideas

Work for a company that develops software specifically for agriculture.

Work for a local farm that uses modern farm equipment.


FFA


Information Technology (IT) Specialist

Skills Needed

- Network Administration and Security
- Software Troubleshooting
- Project Management

Foundational SAE Ideas

Study common IT issues related to agricultural equipment.

Research average salaries and available careers for IT specialists in agriculture.

Immersion SAE Ideas

Help provide IT support services for an agricultural cooperative.

Investigate cybersecurity risks specific to agricultural IT systems and develop strategies for protecting farm technology from cyber threats.


FFA


Information Technology (IT) Web Developer

Skills Needed

- Proficiency in Web Technologies
- Creativity
- Attention to Detail

Foundational SAE Ideas

Analyze websites of agricultural technology companies to understand common features and design elements.

Develop a financial plan for managing income from freelance web development work.

Immersion SAE Ideas

Create a website for the agriculture department and FFA chapter.

Manage a website for the agriculture department and FFA chapter.


FFA



Integrated Pest Management Specialist

Skills Needed

- Pest Identification
- Data Collection
- Pest Control Methods

Foundational SAE Ideas

Create a guide for identifying common agricultural pests and their impacts.

Research and report on various integrated pest management techniques used in agriculture.

Immersion SAE Ideas

Manage the pests in the agriculture department greenhouse and garden.

Research and compare the effectiveness of various IPM strategies on different crops or pest types.


FFA


Intern

Skills Needed

- Software Proficiency
- Eagerness to Learn
- Time Management

Foundational SAE Ideas

Shadow different departments within an agricultural business.

Research internships available for high school and college students in your area of interest.

Immersion SAE Ideas

Work for a local agricultural business in multiple and diverse areas.

Work as a teacher's assistant for the agriculture department.


FFA


Inventory/Stock Specialist

Skills Needed

- Inventory Management
- Warehouse Operations
- Attention to Detail

Foundational SAE Ideas

Research and document different inventory management systems used in agriculture.

Find certifications relevant to inventory management.

Immersion SAE Ideas

Work at a farm supply store.

Manage inventory and stock levels for your school's farm or garden, including tracking supplies and ordering materials.


FFA


Irrigation Specialist

Skills Needed

- Environmental Regulations
- Design and Installation
- Technical Aptitude

Foundational SAE Ideas

Compare and contrast different types of irrigation systems.

Create a resume and LinkedIn profile highlighting your experiences and skills in this career area.

Immersion SAE Ideas

Design and implement a small-scale irrigation project in the FFA chapter garden or greenhouse.

Work for an organic vegetable farm.


FFA



FFA

Logger

Skills Needed

- Safety Awareness
- Tree Identification and Assessment
- Stamina

Foundational SAE Ideas

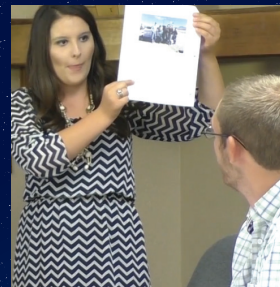
Design a safety poster for logging operations.

Research different types of logging equipment and their uses.

Immersion SAE Ideas

Research how logging activities affect local wildlife populations and ecosystems.

Work for a professional logger.



FFA

Logistics & Supply Chain Management/Director of Supply Chain

Skills Needed

- Supply Chain Strategy and Planning
- Logistics Coordination
- Relationship Building

Foundational SAE Ideas

Identify supply chain challenges in agriculture.

Interview a supply chain manager.

Immersion SAE Ideas

Research the impact of autonomous vehicles on logistics.

Organize a competition where students develop innovative solutions to real-world supply chain problems.



FFA

Microbiologist

Skills Needed

- Identification and Classification
- Laboratory Techniques
- Molecular Biology

Foundational SAE Ideas

Research careers available in the microbiology field.

Research an agricultural issue that affects the microbiology field.

Immersion SAE Ideas

Research the role of microbes in soil fertility.

Grow and observe microbial cultures from various sources (e.g., soil, water, surfaces) in a classroom lab. Document growth patterns and characteristics.



FFA

Nematologist

Skills Needed

- Identification and Classification
- Soil Sampling and Analysis
- Research Skills

Foundational SAE Ideas

Tour an agricultural research lab.

Review emergency response procedures for lab incidents, including spills or exposure to hazardous materials.

Immersion SAE Ideas

Intern at an agricultural research facility.

Research various methods for controlling nematode infestations, such as crop rotation or biological control.



Nutrient Management/Waste Management Specialist

Skills Needed

- Sampling and Analysis
- Sustainable Practices
- Analytical Skills

Foundational SAE Ideas

Create a career pathway map for nutrient and waste management.

Develop a savings plan to cover educational expenses.

Immersion SAE Ideas

Develop and sell DIY composting kits.

Manage the school garden's nutrient needs. Conduct soil testing, fertilization and composting activities.


FFA


Occupational Health & Safety Manager

Skills Needed

- Safety Awareness
- Incident Investigation and Reporting
- Emergency Preparedness and Response

Foundational SAE Ideas

Create a presentation that highlights the role of safety managers in agriculture.

Develop a financial plan outlining the costs of obtaining necessary certifications and continuing education.

Immersion SAE Ideas

Design and conduct a research project on workplace safety issues.

Work for your agriculture department as the safety manager.


FFA


Office Manager

Skills Needed

- Scheduling and Coordination
- Record Keeping
- Human Resources Management

Foundational SAE Ideas

Shadow an office manager at a local agricultural business.

Research and write a detailed report on the role of an office manager.

Immersion SAE Ideas

Work at a local agricultural business as an assistant to the office manager.

Work as a student office manager for a school club or department.


FFA


Organizational Development Manager

Skills Needed

- Employee Relations
- Training and Development
- Collaboration

Foundational SAE Ideas

Design a vision board outlining your career goals and aspirations.

Perform a SWOT analysis (strengths, weaknesses, opportunities, threats) on yourself regarding your career goals.

Immersion SAE Ideas

Research and analyze the impact of organizational culture on employee satisfaction and productivity.

Work as an intern in the HR department of a local agricultural business.


FFA



Payroll Administrator

Skills Needed

- Software Proficiency
- Accounting and Bookkeeping
- Confidentiality

Foundational SAE Ideas

Create a poster about the importance of keeping payroll information secure.

Research potential pathways for becoming a payroll administrator.

Immersion SAE Ideas

Intern at a local agricultural business in the HR department.

Manage the FFA chapter's finances.


FFA


Pest Control Advisor

Skills Needed

- Pest Identification
- Pest Management
- Pest Control Methods

Foundational SAE Ideas

Develop a plan for managing pests in a garden or small agricultural area.

Research safety protocols for working with pesticides.

Immersion SAE Ideas

Work for an agricultural extension office.

Research how different pests affect crop yields and quality.


FFA


Pesticide Technician

Skills Needed

- Equipment Operation
- Mixing and Application Techniques
- Pest Control Methods

Foundational SAE Ideas

Create a poster highlighting essential safety practices for handling and applying pesticides.

Look up different roles related to pest management.

Immersion SAE Ideas

Launch a lawn care business offering pest control services.

Research the effectiveness of various pesticides for controlling specific pests.


FFA


Policy Analyst

Skills Needed

- Data Collection and Interpretation
- Legislative Knowledge
- Relationship Building

Foundational SAE Ideas

Research a current agricultural or environmental policy issue.

Draft a mock proposal for a new policy or a policy change in an area of interest.

Immersion SAE Ideas

Intern with a government agency.

Start a blog that analyzes current agricultural or environmental policies.


FFA



Port Terminal Manager

Skills Needed

- Logistics and Supply Chain Management
- Safety Awareness
- Team Building

Foundational SAE Ideas

Create a professional resume and cover letter tailored for a desired career.

Learn basic financial terms and apply them to a personal budget.

Immersion SAE Ideas

Work for a shipping company.

Research the environmental impact of port terminal activities.


FFA


Pressure Washer Operator

Skills Needed

- Equipment Operation
- Cleaning and Sanitation
- Attention to Detail

Foundational SAE Ideas

Learn about different types of pressure washing equipment, including their uses and maintenance requirements.

Learn how pressure washing is used in agricultural settings.

Immersion SAE Ideas

Work with pressure washing equipment, facilities or machinery on a farm.

Start a pressure washing business.


FFA


Pricing Coordinator

Skills Needed

- Pricing Software
- Financial Analysis
- Analytical Skills

Foundational SAE Ideas

Practice creating and managing spreadsheets, analyzing data and performing basic financial calculations.

Research best practices for managing and securing financial and pricing data.

Immersion SAE Ideas

Work in the marketing department of an agricultural business.

Research how pricing strategies vary across different industries and their impact on sales and profitability.


FFA


Process Engineer

Skills Needed

- Process Design and Optimization
- Safety Awareness
- Adaptability

Foundational SAE Ideas

Research various specializations within the field of process engineering.

Create a plan outlining the steps required to become a process engineer.

Immersion SAE Ideas

Work at an agricultural manufacturing company.

Organize and compete in a school-based engineering fair.


FFA



Product Development Manager/Demand Planner

Skills Needed

- Marker
- Project Management
- Demand Forecasting

Foundational SAE Ideas

Investigate various agricultural products and their development processes.

Tour a food processing plant.

Immersion SAE Ideas

Research how seasonal factors influence product demand at local farmers markets.

Develop a new product for an FFA event or fundraiser.


FFA


Propane Sales and Delivery Associate

Skills Needed

- Handling and Safety
- Inventory Management
- Regulatory Compliance

Foundational SAE Ideas

Help with a local sales initiative or fundraiser.

Research how propane is used in agricultural settings.

Immersion SAE Ideas

Conduct a project at school to raise awareness about the propane industry.

Teach lessons to elementary students about the propane industry.


FFA


Public Relations Specialist

Skills Needed

- Media Relations
- Content Creation
- Crisis Management

Foundational SAE Ideas

Practice writing press releases for fictional or real events.

Research common PR challenges faced by agricultural businesses.

Immersion SAE Ideas

Create and manage a public relations campaign for an FFA event or initiative.

Work for a local radio station.


FFA


Receptionist

Skills Needed

- Calendar Management
- Office Equipment Operation
- Software Knowledge

Foundational SAE Ideas

Develop a resume highlighting skills relevant to being a receptionist, such as communication, organization and customer service.

Research ergonomic best practices for a receptionist's workstation.

Immersion SAE Ideas

Work at a local farm supply store.

Work at an agricultural nonprofit in your area.


FFA



Research and Development Manager

Skills Needed

- Team Supervision
- Collaboration
- Leadership

Foundational SAE Ideas

Research recent innovations in agriculture.

Develop a plan outlining the steps to become a research and development manager.

Immersion SAE Ideas

Research how new technologies, such as drones, sensors or biotechnology, are affecting farming practices and develop presentations to educate the public.

Create a prototype for a new agricultural tool or device.


FFA


Research and Development Technician

Skills Needed

- Laboratory Skills
- Data Collection and Analysis
- Safety and Compliance Standards

Foundational SAE Ideas

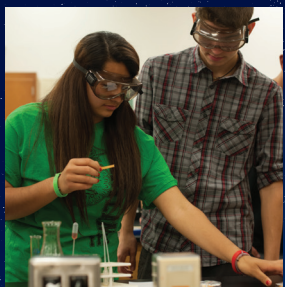
Research different types of PPE used in laboratory settings.

Research certification programs relevant to R&D technicians.

Immersion SAE Ideas

Work at an agricultural research lab.

Host an annual science fair at your school focused on research and development in agriculture.


FFA


Research Associate

Skills Needed

- Research Skills
- Writing
- Statistical Analysis

Foundational SAE Ideas

Develop a presentation on a research topic or a project you have worked on.

Perform a basic safety inspection of your school's agricultural science lab.

Immersion SAE Ideas

Develop a research-based agricultural product.

Conduct research on the effectiveness of sustainable farming practices.


FFA


Research Scientist

Skills Needed

- Advanced Research Techniques
- Grant Proposal Writing
- Knowledge in Field of Study

Foundational SAE Ideas

Create a budget for a hypothetical research project.

Research the effects of genetically modified crops on agriculture.

Immersion SAE Ideas

Launch a blog or podcast focused on agricultural research.

Create educational resources that explain a key agricultural concept or practice.


FFA



Research Station Manager

Skills Needed

- Project Coordination
- Budgeting
- Teamwork

Foundational SAE Ideas

Visit a local agricultural research station or facility.

Design educational posters about safety practices in a research environment.

Immersion SAE Ideas

Oversee a research project within your school's agriculture program.

Work at your local agricultural research station.


FFA


Research Technician

Skills Needed

- Laboratory Skills
- Equipment Operation and Maintenance
- Data Collection

Foundational SAE Ideas

Create and deliver a presentation on a research topic you are interested in.

Research and propose cost-effective alternatives for common research supplies or equipment. Compare the pros and cons of different options.

Immersion SAE Ideas

Launch a blog or YouTube channel focused on agricultural research. Share insights into research techniques, equipment reviews and the latest advancements in the field.

Research how various soil amendments affect crop growth and soil health.


FFA


Restoration Specialist

Skills Needed

- Project Management
- Adaptability
- Collaboration

Foundational SAE Ideas

Research various restoration techniques.

Develop a mock proposal for a local restoration project.

Immersion SAE Ideas

Develop and manage a community restoration project.

Research the impact of invasive species on local ecosystems and restoration efforts.


FFA


Safety Director

Skills Needed

- Incident Reporting
- Emergency Response
- Risk Management

Foundational SAE Ideas

Create a presentation on workplace safety topics.

Perform a safety audit of your agriculture department. Identify potential hazards and recommend improvements to enhance safety practices.

Immersion SAE Ideas

Host an annual farm safety day for elementary students.

Work as a safety director for your agricultural education department.


FFA



Sales Representative: Food, Seed, Feed, Fuel

Skills Needed

- Product Knowledge
- Sales Techniques and Strategies
- Customer Relationship Management

Foundational SAE Ideas

Create a brochure promoting an agricultural product.

Study current trends in the food, seed, feed or fuel sectors.

Immersion SAE Ideas

Organize an annual school event or fair showcasing different agricultural products.

Intern with a seed company.


FFA


Sales Trainer

Skills Needed

- Sales
- Product Knowledge
- Presentation and Facilitation

Foundational SAE Ideas

Identify key skills needed for your career interest and create a plan to develop these skills.

Shadow an agricultural salesperson.

Immersion SAE Ideas

Develop and manage the FFA chapter fundraisers and train fellow members how to sell.

Manage a school store where you sell items to students.


FFA


Sanitation Coordinator

Skills Needed

- Safety Compliance
- Cleaning and Sanitation
- Documentation

Foundational SAE Ideas

Explore various career opportunities related to sanitation.

Choose a specific audience and develop and distribute educational materials on sanitation practices.

Immersion SAE Ideas

Conduct a study to determine the effectiveness of different disinfectants on various surfaces.

Assist in a greenhouse by cleaning and maintaining plant growing areas.


FFA


Seed Production Technician

Skills Needed

- Seed Processing and Handling
- Equipment Operation and Maintenance
- Record Keeping

Foundational SAE Ideas

Develop an informational guide detailing various seed varieties, their characteristics and their uses in different agricultural applications.

Investigate various career paths within seed production.

Immersion SAE Ideas

Research different seed varieties to determine their performance under various growing conditions.

Assist in an agricultural science class by helping with seed-related experiments and demonstrations.


FFA



Shipping Coordinator

Skills Needed

- Logistics and Supply Chain Management
- Inventory Management
- Attention to Detail

Foundational SAE Ideas

Research and analyze shipping costs for different types of agricultural products.

Learn about proper lifting techniques and ergonomics to prevent injuries during shipping tasks.

Immersion SAE Ideas

Develop a business that provides customized packaging solutions for agricultural products.

Start a delivery service for local farmers, handling the logistics of getting fresh produce from farms to local markets or customers.


FFA


Social Media Strategist

Skills Needed

- Social Media Knowledge
- Creativity
- Analytical Skills

Foundational SAE Ideas

Analyze the social media strategy of an agricultural company.

Develop strategies for managing and responding to online harassment or negative comments while maintaining a professional image.

Immersion SAE Ideas

Assist an agricultural business or organization with their social media accounts.

Create and run social media campaigns to raise awareness about local community issues or events.


FFA


Supply Chain Manager

Skills Needed

- Inventory Management
- Demand Planning
- Logistics

Foundational SAE Ideas

Study the supply chain processes specific to agriculture and make a poster.

Learn about the regulations and compliance standards affecting agricultural supply chains.

Immersion SAE Ideas

Work as a warehouse assistant.

Help manage the logistics and supply chain processes for distributing food to local communities.


FFA


Sustainability Manager

Skills Needed

- Report Writing
- Environmental Stewardship
- Passion for Sustainability

Foundational SAE Ideas

Study sustainable agricultural practices and how they contribute to environmental conservation and efficiency.

Shadow a sustainability manager or professional.

Immersion SAE Ideas

Develop a line of products made from sustainable materials or using eco-friendly processes, such as reusable bags or biodegradable containers.

Start a landscaping business that uses sustainable practices.


FFA



Sustainability Specialist

Skills Needed

- Knowledge of Sustainable Agriculture Practices
- Analytical Thinking
- Collaboration

Foundational SAE Ideas

Visit farms that implement sustainable practices.

Research various roles within sustainability, and create a project or presentation about different career paths and required qualifications.

Immersion SAE Ideas

Start a community recycling program.

Host workshops for community members about sustainable practices.


FFA


Systems Administrator

Skills Needed

- Operating Systems
- Server Administration
- Troubleshooting

Foundational SAE Ideas

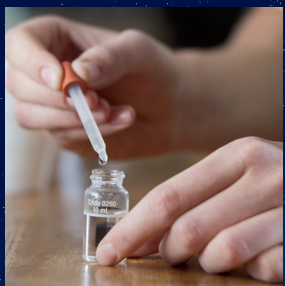
Prepare a professional resume and practice interview techniques.

Research emerging technology trends in agriculture.

Immersion SAE Ideas

Intern at an IT services company specializing in agriculture.

Utilize and manage software for monitoring plans in your agriculture department greenhouse or garden.


FFA


Toxicologist

Skills Needed

- Risk Assessment
- Attention to Detail
- Problem-Solving

Foundational SAE Ideas

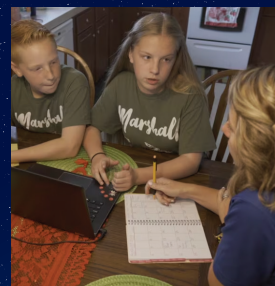
Study laboratory safety protocols, chemical handling procedures and toxic substance regulations.

Learn about the effects of chemicals on human health and the environment.

Immersion SAE Ideas

Conduct a research project on toxicological effects of environmental contaminants.

Intern at a toxicology laboratory or environmental consulting firm.


FFA


Trade Manager

Skills Needed

- Supply Chain Management
- Market Analysis
- Negotiation

Foundational SAE Ideas

Study international trade laws and trade agreements and how they impact the agriculture industry.

Complete the FAFSA to help pay for higher education.

Immersion SAE Ideas

Intern in the trade department of a local agricultural business.

Collaborate with economics or business teachers to establish a student-run international trade simulation.


FFA



Water Resource Engineer

Skills Needed

- Water Quality Analysis
- Analytical Thinking
- Teamwork

Foundational SAE Ideas

Study safety regulations related to water resource projects.

Learn about water conservation strategies, water rights, water policy and the role of water resource engineers in ensuring sustainable water supply and management.

Immersion SAE Ideas

Conduct a research project on water resource management techniques (e.g., rainwater harvesting, groundwater recharge).

Collaborate with environmental science teachers to establish a school water resource management project.


FFA


Water Treatment Technician

Skills Needed

- Equipment Operation
- Safety Awareness
- Troubleshooting

Foundational SAE Ideas

Create a budget for pursuing certification as a water treatment technician.

Determine what PPE is required for a career as a water treatment technician.

Immersion SAE Ideas

Work at a water treatment plant or utility company.
Conduct a research project on water purification methods.


FFA


Wildlife Biologist

Skills Needed

- Field Research Techniques
- Conservation
- Data Analysis

Foundational SAE Ideas

Job shadow a wildlife biologist at a nature reserve, zoo or research facility.

Identify what skills are needed for a future career as a wildlife biologist.

Immersion SAE Ideas

intern at a wildlife rehabilitation center.

Establish a wildlife monitoring program at school, using trail cameras or bird feeders to observe and document wildlife activity.


FFA


Wind Substation Technician

Skills Needed

- Troubleshooting and Repair
- Safety Awareness
- Equipment Operation and Maintenance

Foundational SAE Ideas

Research renewable energy sources, grid integration and environmental impacts of wind energy.

Analyze labor demand for wind substation technicians.

Immersion SAE Ideas

Work for a wind energy company or utility provider.

Research the efficiency of wind energy compared to other energy sources.


FFA



FFA

Wind Turbine Technician

Skills Needed

- Equipment Maintenance and Repair
- Troubleshooting
- Documentation

Foundational SAE Ideas

Determine what safety certifications are required for a wind turbine technician.

Study the role of wind turbines in sustainable energy production and conservation.

Immersion SAE Ideas

Conduct a research project about turbine blade design.

Collaborate with science teachers to build a model wind turbine prototype, testing different blade designs and measuring energy output.