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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.

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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.

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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.

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Agricultural Engineer

Skills Needed

- Communication
- Teamwork
- Analytical Skills

Foundational SAE Ideas

Develop technical skills through robotics clubs or engineering workshops.

Create a budget for engineering project materials or competitions.

Immersion SAE Ideas

Intern with an agricultural engineering firm to learn about design and testing of agricultural machinery.

Conduct experiments on soil erosion control or precision farming technologies.

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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.

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Assembly Technician

Skills Needed

- Mechanical Skills
- Technical Skills
- Safety Awareness

Foundational SAE Ideas

Participate in mock interviews to practice answering common interview questions.

Explore how technology is used in agiculture.

Immersion SAE Ideas

Work at a local manufacturing company.

Restore tractors and other equipment in your local agriculture department.

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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.

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Automation Technician/ Coordinator

Skills Needed

- Technical Skills
- Programming
- Teamwork

Foundational SAE Ideas

Learn and apply safety procedures for working with automation systems and machinery.

Research how automation is used in agricultural settings.

Immersion SAE Ideas

Work at a local manufacturing facility or agricultural technology company.

Start an agricultural robotics club within your agriculture program, where students design and build prototype robots for tasks such as planting, spraying or harvesting crops.

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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.

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Bioinformatics Scientist

Skills Needed

- Programming
- Collaboration
- Problem-Solving

Foundational SAE Ideas

Research and create a presentation about how bioinformatics is applied to agricultural research.

Shadow a bioinformatics scientist.

Immersion SAE Ideas

Intern at a local agricultural research institute or biotechnology company.

Partner with conservation groups to use bioinformatics to assess genetic diversity in local ecosystems.

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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.

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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.

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Carpenter/Laborer

Skills Needed

- Physical Stamina
- Safety Awareness
- Material Knowledge

Foundational SAE Ideas

Build a portfolio showcasing your carpentry projects, skills and certifications to present to potential employers or educational institutions.

Obtain certifications in workplace safety relevant to carpentry, such as OSHA training.

Immersion SAE Ideas

Start a business designing and creating custom furniture pieces.

Help repair or renovate facilities for local nonprofits or shelters.

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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.

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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.

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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.

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Communications Specialist

Skills Needed

- Writing
- Public Relations
- Creativity

Foundational SAE Ideas

Contribute articles about the agriculture program to your school's newsletter or magazine.

Create promotional flyers or posters for FFA chapter events.

Immersion SAE Ideas

Write articles for the FFA chapter and submit them to the local newspaper.

Create and manage a blog or social media presence for a farm or agribusiness.

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Computer System Analyst

Skills Needed

- Programming
- Database Management
- Analytical Skills

Foundational SAE Ideas

Evaluate and compare different software solutions for a specific need.

Learn about how IT systems are integrated into agricultural operations.

Immersion SAE Ideas

Research the impact of precision agriculture technologies on farm productivity and efficiency.

Intern with the IT department of an agricultural company.

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Construction Foreman

Skills Needed

- Construction Management
- Safety Awareness
- Leadership

Foundational SAE Ideas

Obtain an OSHA certification.

Shadow a construction foreman or project manager.

Immersion SAE Ideas

Work for a construction company that specializes in building agricultural facilities.

Manage a school-based construction project, such as building or renovating a garden shed for the school's agriculture program.

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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.

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Cotton Gin and Warehouse Manager

Skills Needed

- Quality Assurance
- Logistics
- Problem-Solving

Foundational SAE Ideas

Research the cotton production process.

Shadow a cotton gin or warehouse manager.

Immersion SAE Ideas

Develop and manage a project focused on improving storage solutions for agricultural products at school for a school-based enterprise.

Intern with an organization that supports the cotton industry.

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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.

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Data Analyst

Skills Needed

- Data Analysis
- Analytical Thinking
- Attention to Detail

Foundational SAE Ideas

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

Explore career opportunities in data analysis.

Immersion SAE Ideas

Intern with an agricultural company or organization that uses data analysis.

Research trends in a specific agricultural area using data analysis techniques.

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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.

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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.

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Design Engineer

Skills Needed

- Technical Skills
- Prototyping
- Product Knowledge

Foundational SAE Ideas

Develop skills with learning tools like AutoCAD, SolidWorks or Fusion 360 and basic coding skills.

Explore technical writing skills and the design process, and learn about simple machines.

Immersion SAE Ideas

Intern with an agricultural engineering firm.

Start a school-based business designing and 3-D printing items to sell.

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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.

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Dispatcher

Skills Needed

- Logistics
- Problem-Solving
- Decision-Making

Foundational SAE Ideas

Shadow a professional dispatcher in various sectors.

Explore the shipping and transfer methods within agribusiness to understand global trade methods.

Immersion SAE Ideas

Work in the logistics department of an agricultural business.

Work for a farm or agricultural operation to manage the logistics of the operation.

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Drone Technician

Skills Needed

- Data Analysis
- Technical Skills
- Attention to Detail

Foundational SAE Ideas

Understand local regulations and guidelines related to drone use and safety.

Explore how drones are used in agriculture.

Immersion SAE Ideas

Research the impact of drones on precision agriculture.

Start a business collecting drone footage and crop monitoring for local farmers.

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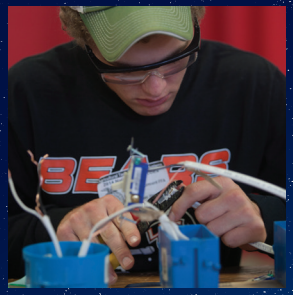

Electrical Engineer

Skills Needed

- Electrical Codes and Standards
- Control Systems
- Stamina

Foundational SAE Ideas

Learn and apply safety practices for working with electrical components.

Study how electrical engineering innovations improve farm machinery and operations.

Immersion SAE Ideas

Set up a student-run lab where students design, build and test electrical circuits and systems.

Research recent advancements in power systems and their impact on agriculture.

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Energy Sales Specialist

Skills Needed

- Sales Skills
- Contract Negotiation
- Relationship Building

Foundational SAE Ideas

Research the energy sector, focusing on different types of energy products and services, and prepare a presentation on current industry trends.

Research and advocate for sustainable energy practices in agriculture.

Immersion SAE Ideas

Work for a company that provides energy solutions specifically tailored for agriculture.

Set up a renewable energy source within your community to contribute to renewable energy output.

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Environmental Compliance Officer

Skills Needed

- Auditing
- Analytical Thinking
- Environmental Awareness

Foundational SAE Ideas

Develop a mock plan for responding to environmental emergencies, such as spills or contamination events, including procedures and safety measures.

Research environmental compliance issues specific to agriculture.

Immersion SAE Ideas

Create resources to help farmers and agricultural businesses understand and meet environmental compliance requirements.

Research the effects of environmental regulations on agricultural practices.

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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.

Preform administrative tasks for your local agriculture department.

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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.

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Export Sales Manager

Skills Needed

- Sales Skills
- Export Regulation and Compliance
- Market Research and Analysis

Foundational SAE Ideas

Analyze the average salary of export sales managers and develop a personal budget as if you were employed in this career.

Research the career pathways for export sales managers in agriculture.

Immersion SAE Ideas

Work for a company that sells agricultural products.

Start and run a farmers market in your local community.

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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.

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Finished Goods Supervisor

Skills Needed

- Inventory Management
- Manufacturing Processes
- Safety Regulations

Foundational SAE Ideas

Research different career paths related to finished goods management.

Prepare a financial plan that includes education and training to be successful in this field.

Immersion SAE Ideas

Work for a manufacturing plant.

Develop a project in your agriculture department where students process and package agricultural products, such as canned goods or dried herbs.

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Fleet Manager

Skills Needed

- Regulatory Compliance
- Leadership
- Communication

Foundational SAE Ideas

Create a basic checklist for routine vehicle maintenance tasks.

Create a resume and cover letter using the FFA Resume Generator.

Immersion SAE Ideas

Work at a dealership that sells agricultural equipment.

Develop a student-run service that rents out or manages agricultural equipment for school or community projects.

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Forklift Operator

Skills Needed

- Safety Awareness
- Equipment Operation and Maintenance
- Loading and Unloading

Foundational SAE Ideas

Develop a report or infographic about the role of forklifts in agricultural warehouses.

Shadow a forklift operator in an agricultural setting to observe their work environment and responsibilities.

Immersion SAE Ideas

Work at a warehouse or distribution center.

Create and conduct farm safety workshops for elementary students.

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Freezer/Refrigeration Specialist

Skills Needed

- Troubleshooting and Repair
- Safety Awareness
- Equipment Maintenance

Foundational SAE Ideas

Research various roles within the refrigeration field.

Create a visual map of career pathways within the refrigeration industry, including entry-level positions, advanced roles and potential career advancements.

Immersion SAE Ideas

Work at a meat processing facility.

Research how temperature fluctuations in refrigeration affect food safety and quality.

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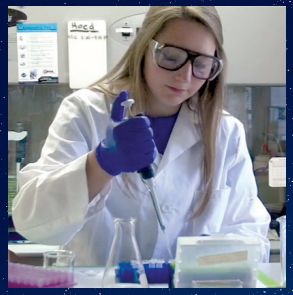

Genomics Scientist

Skills Needed

- Research Skills
- Laboratory Skills
- Data Analysis

Foundational SAE Ideas

Develop a presentation explaining how genomics is used to enhance crop traits.

Research and create a cost-benefit analysis of pursuing a degree in genomics.

Immersion SAE Ideas

Organize educational outreach programs in schools to teach students about the role of genomics in agriculture.

Research the public perception of genomics in agriculture.

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Geospatial Analytics Scientist

Skills Needed

- Geospatial Data Analysis
- Remote Sensing Techniques
- Problem-Solving

Foundational SAE Ideas

Develop a presentation on how Geographic Information Systems (GIS) are used in agriculture.

Create a checklist of key skills and software knowledge needed for a career in geospatial analytics.

Immersion SAE Ideas

Create maps for local agricultural initiatives.

Research how GIS technology improves precision agriculture practices.

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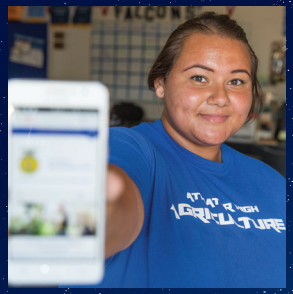

Graphic Designer

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.

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Heavy Duty Equipment Technician

Skills Needed

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

Foundational SAE Ideas

Create a manual detailing common repairs and maintenance procedures for heavy-duty agricultural equipment.

Shadow a professional heavy-duty equipment technician.

Immersion SAE Ideas

Work for the agriculture department maintaining and repairing equipment.

Work for an agriculture implement dealership.

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Heavy Equipment Operator

Skills Needed

- Equipment Operation
- Safety Awareness
- Attention to Detail

Foundational SAE Ideas

Research career paths in heavy equipment operation, including specialized roles and opportunities for advancement.

Create a checklist for inspecting heavy equipment before use.

Immersion SAE Ideas

Work for a lawn care and/or snow removal business.

Start your own lawn care and landscaping business.

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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.

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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.

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Hydraulic Technician

Skills Needed

- Maintenance and Repair
- Troubleshooting
- Blueprint Reading

Foundational SAE Ideas

Analyze different hydraulic components used in agricultural machinery and create a report on their functions and maintenance needs.

Identify certifications related to hydraulic systems.

Immersion SAE Ideas

Work on maintaining and repairing hydraulic systems in school equipment or machinery.

Work at a local equipment repair shop.

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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.

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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.

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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.

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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.

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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.

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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.

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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.

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Integrated Solutions Consultant

Skills Needed

- Technical Skills
- Documentation and Record Keeping
- Project Management

Foundational SAE Ideas

Research agricultural technologies in different countries.

Find a mentor who works as an integrated solutions consultant in agriculture. Meet regularly to discuss career goals.

Immersion SAE Ideas

Research and compare the effectiveness of various precision agriculture technologies in improving farm productivity and efficiency.

Investigate different soil sampling methods and their influence on crop yield.

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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.

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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.

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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.

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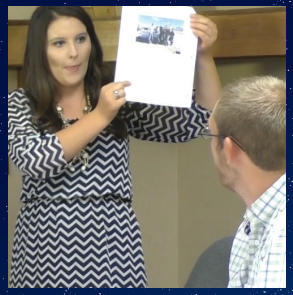

Logistics & Supply Chain Management/Director of Supply Chain

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.

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Logistics Specialist

Skills Needed

- Warehouse Management
- Inventory Control
- Route Optimization

Foundational SAE Ideas

Study how logistics and supply chain management are applied in the agriculture industry.

Complete an online course on general workplace safety practices and protocols.

Immersion SAE Ideas

Start a business that manages the logistics of delivering fresh produce from local farms to restaurants and consumers.

Manage the logistics for FFA events and activities.

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Machine/Equipment Operator

Skills Needed

- Equipment Operation
- Safety Awareness
- Technical Aptitude

Foundational SAE Ideas

Complete a safety training program focused on operating agricultural machinery and equipment.

Create a checklist for daily machinery inspections and safety checks.

Immersion SAE Ideas

Operate equipment for a construction company that specializes in building agricultural facilities.

Organize an annual event at school focused on machinery safety.

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Maintenance/Service Technician

Skills Needed

- Equipment Maintenance and Repair
- Technical Skills
- Safety Awareness

Foundational SAE Ideas

Research different types of agricultural equipment and machinery and their maintenance needs.

Evaluate the costs associated with maintaining versus replacing agricultural equipment.

Immersion SAE Ideas

Conduct maintenance on machinery in the agricultural mechanics department.

Work at a local farm or agricultural equipment dealer.

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Mechanic

Skills Needed

- Repair and Maintenance Techniques
- Safety Awareness
- Tool and Equipment Operations

Foundational SAE Ideas

Shadow a professional mechanic.

Create a portfolio showcasing completed projects, repair work and certifications.

Immersion SAE Ideas

Research how regular maintenance practices affect the lifespan and performance of agricultural machinery.

Restore tractors and other equipment in your local agriculture department.

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Mechanical Electrician/ Electronics Technician

Skills Needed

- Systems Troubleshooting
- Problem-Solving
- Technical Aptitude

Foundational SAE Ideas

Develop a financial plan for pursuing further education or certification in electrical systems or electronics.

Research renewable energy sources.

Immersion SAE Ideas

Help a local agribusiness's maintenance team with the repair and upkeep of electronic systems in machinery.

Research how automated electronic systems improve efficiency and productivity in agricultural operations.

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Mechanical Engineer

Skills Needed

- Engineering Design
- Manufacturing Processes
- Problem-Solving

Foundational SAE Ideas

Research various career pathways within agricultural engineering.

Shadow a mechanical engineer.

Immersion SAE Ideas

Create a prototype of a new or improved agricultural tool as part of a school project.

Work for an agricultural equipment manufacturer.

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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.

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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.

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Operations Manager

Skills Needed

- Planning and Strategy
- Budgeting
- Financial Analysis

Foundational SAE Ideas

Design a poster that explains what an operations manager does.

Compare different job descriptions for operations managers from different companies to understand common requirements and skills.

Immersion SAE Ideas

Launch and manage all the operations of your own small business.

Manage the agriculture department greenhouse or garden.

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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.

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Parts Manager

Skills Needed

- Parts Knowledge
- Technical Troubleshooting
- Customer Service

Foundational SAE Ideas

Develop an infographic that outlines the key responsibilities of a parts manager.

Shadow a parts manager.

Immersion SAE Ideas

Manage the inventory in your agricultural mechanics shop.

Work at a farm equipment dealership in the parts department.

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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.

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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.

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Precision Agriculture Specialist

Skills Needed

- Precision Technology
- Crop Health Monitoring
- Technical Aptitude

Foundational SAE Ideas

Visit a farm using precision agriculture.

Research educational programs and courses related to precision agriculture.

Immersion SAE Ideas

Work for a local farm that uses precision agriculture.

Set up experiments at school to test different precision agriculture tools or techniques.

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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.

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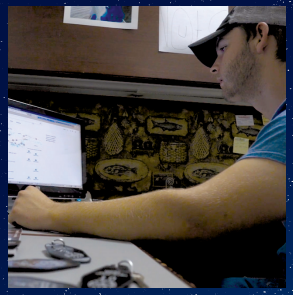

Pricing Coordinator

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.

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Process/Continuous Improvement Manager

Skills Needed

- Project Management
- Data Analysis
- Leadership

Foundational SAE Ideas

Develop a report on process improvement strategies used in agriculture.

Research various career opportunities related to process improvement and management.

Immersion SAE Ideas

Develop a detailed improvement plan for an FFA activity or event.

Intern with a logistics or supply chain company.

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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.

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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.

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Production Lead

Skills Needed

- Team Supervision
- Safety Awareness
- Production Scheduling and Coordination

Foundational SAE Ideas

Shadow a production lead at a local agricultural business.

Research safety protocols relevant to production environments.

Immersion SAE Ideas

Work at a manufacturing or production facility.

Develop and manage a production-based small business.

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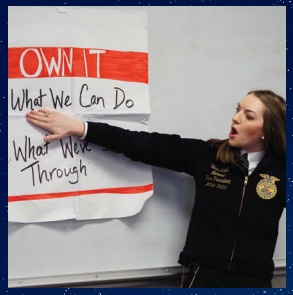

Public Relations Specialist

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.

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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.

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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.

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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.

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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.

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Row Crop Producer/Farmer

Skills Needed

- Crop Production Techniques
- Marketing and Sales
- Pest and Disease Management

Foundational SAE Ideas

Research different row crop varieties and their suitability for your local climate and soil conditions.

Create a crop rotation plan for a small farm or garden.

Immersion SAE Ideas

Start a small-scale row crop operation on a portion of your land or in a community garden.

Start a small business creating value-added products from row crops.

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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.

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Sales Representative Equipment and Agricultural Systems

Skills Needed

- Technical Skills
- Product Knowledge
- Customer Service

Foundational SAE Ideas

Develop a comparison chart for various models of agricultural equipment.

Tour an agricultural equipment dealership.

Immersion SAE Ideas

Assist with the maintenance and repair of agricultural equipment at a local dealership or farm.

Conduct research using surveys to gather data on how different agricultural equipment is used by local farmers.

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Sales Representative Equipment and Agricultural Systems

Skills Needed

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- Product Knowledge
- Customer Service

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Immersion SAE Ideas

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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.

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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.

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Sawmill Operator

Skills Needed

- Equipment Operation
- Safety Awareness
- Production Efficiency

Foundational SAE Ideas

Create a diagram of a sawmill, and identify the careers needed to help the mill run.

Identify the steps involved in harvesting and processing timber and the role of sawmills in the lumber industry.

Immersion SAE Ideas

Create jewelry, pens and other items using a lathe.

Start a small business that offers custom woodworking services.

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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.

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Service Manager

Skills Needed

- Technical Knowledge
- Management
- Customer Relationship Management

Foundational SAE Ideas

Take on leadership roles in school or community projects to build skills in managing teams, resolving conflicts and making decisions.

Investigate different career paths and opportunities within service management in the agriculture sector.

Immersion SAE Ideas

Assist in the agriculture mechanics lab. Help set up equipment and manage repair of tools.

Start a small business offering DIY repair workshops for equipment like lawn mowers or small engines.

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Service Writer

Skills Needed

- Organizational Skills
- Communication
- Record Keeping

Foundational SAE Ideas

Design a poster highlighting key safety rules for working in a shop.

Create a guide describing common agricultural tools and their uses.

Immersion SAE Ideas

Work for your agriculture department by coordinating service and maintenance tasks for classroom equipment and supplies.

Work as an office assistant in a repair shop.

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Sheet Metal Worker

Skills Needed

- Metal Fabrication Techniques
- Welding and Soldering
- Safety

Foundational SAE Ideas

Develop a checklist of safety procedures for working with sheet metal.

Create a simple budget for a small sheet metal project.

Immersion SAE Ideas

Organize and lead workshops for beginners interested in learning basic sheet metal-working skills.

Start a business making and selling decorative wall art made from sheet metal.

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Shift Manager

Skills Needed

- Scheduling and Coordination
- Staff Supervision and Training
- Inventory Management

Foundational SAE Ideas

Practice writing incident reports for hypothetical workplace accidents.

Create and follow a time management plan.

Immersion SAE Ideas

Organize and manage a temporary retail space or pop-up shop.

Manage shifts for an FFA activity or fundraiser.

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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.

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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.

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Software Engineer

Skills Needed

- Programming
- Software Development
- Problem-Solving

Foundational SAE Ideas

Learn about basic cybersecurity practices and make a presentation or poster.

Explore how farmers use data to make decisions.

Immersion SAE Ideas

Provide technical support for educational software or tools used by students and teachers.

Manage and update a local organization's or school's website.

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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.

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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.

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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.

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Transportation Manager

Skills Needed

- Budgeting
- Logistics Coordination
- Fleet Management

Foundational SAE Ideas

Study transportation regulations and safety protocols.

Job shadow a transportation manager at a logistics company or transportation hub.

Immersion SAE Ideas

Conduct a research project on emerging trends in transportation technology (e.g., electric vehicles, autonomous vehicles).

Intern at an agricultural transportation company or logistics firm.

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Truck Driver

Skills Needed

- Vehicle Maintenance and Inspection
- Loading and Unloading Procedures
- Time Management

Foundational SAE Ideas

Create a budget for obtaining a CDL license, estimating costs for training courses, permit fees and preparing for potential job opportunities in the trucking industry.

Study DOT regulations, hours of service requirements and transportation safety guidelines.

Immersion SAE Ideas

Work for a trucking company or logistics provider.

Collaborate with school administration to organize a truck driving simulator program.

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Warehouse/Facility Manager

Skills Needed

- Inventory Management
- Budgeting
- Warehouse Operations

Foundational SAE Ideas

Determine what safety certifications are required for a warehouse/facility manager.

Create a personal budget to manage income and track expenses.

Immersion SAE Ideas

Work at a warehouse or distribution center.

Volunteer to organize and manage warehouse logistics for disaster relief efforts or nonprofit organizations.

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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.

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Weighbridge/Receivable Associate

Skills Needed

- Safety Procedures
- Documentation and Record Keeping
- Software Knowledge

Foundational SAE Ideas

Create a budget for obtaining a certification in weighbridge operation.

Create a personal budget to manage income and track expenses.

Immersion SAE Ideas

Work at a regional distribution center or logistics company.

Conduct a research project on improving weighbridge efficiency through the implementation of automated data collection systems.

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Welder

Skills Needed

- Welding and Fabrication
- Weld Inspection
- Attention to Detail

Foundational SAE Ideas

Compare jobs where different welding methods may be used and create an infographic to explain.

Research different educational institutions for welding.

Immersion SAE Ideas

Start a small welding business offering mobile welding services for local farms, businesses or homeowners, focusing on repair and fabrication projects.

Conduct a research study on the strength of different weld types and joints.

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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.

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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.

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