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Account Manager

Skills Needed

- Communication
- Relationship Building
- Negotiation

Foundational SAE Ideas

Learn financial literacy including basic accounting principles, financial management and budgeting skills.

Develop a resume and cover letter related to this career.

Immersion SAE Ideas

Develop and implement a marketing plan for a school club or community organization, including strategies for promotion and sales.

Create a small business selling products or services to classmates or local community members.

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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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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.

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Animal Biotechnologist: Reproductive or Nutritional Specialist

Skills Needed

- Research Skills
- Animal Handling
- Ethics

Foundational SAE Ideas

Explore career paths in veterinary clinics, research institutions and agricultural biotechnology companies.

Research the costs of higher education for an animal biotechnologist.

Immersion SAE Ideas

Work for a local livestock producer to learn how livestock are bred.

Conduct research on the efficiency of different livestock feeds.

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Animal Breeder

Skills Needed

- Animal Handling
- Breeding Knowledge
- Adaptability

Foundational SAE Ideas

Research different animal breeding programs and their goals (e.g., genetic improvement, breed preservation).

Create a resume and compare skills attained with skills needed for an animal breeder.

Immersion SAE Ideas

Work for a local livestock producer and learn how to properly AI livestock.

Help start a school farm to provide livestock opportunities to students in your agriculture program.

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Animal Caretaker

Skills Needed

- Compassion
- Record Keeping
- Empathy

Foundational SAE Ideas

Shadow a professional animal caretaker to understand daily responsibilities and career paths.

Learn basic animal handling techniques, such as haltering, leading and tying.

Immersion SAE Ideas

Raise small animals in your agriculture department for showing and educational opportunities.

Start a pet grooming and boarding business.

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Animal Geneticist

Skills Needed

- Technical Skills
- Adaptability
- Critical Thinking

Foundational SAE Ideas

Practice budgeting and financial planning.

Explore ethical considerations and regulatory frameworks in genetic research and its applications in agriculture.

Immersion SAE Ideas

Collaborate with a wildlife conservation organization to conduct genetic monitoring of endangered species.

Manage a genetics education program within your high school agriculture class, where students learn about basic genetics and participate in a small-scale breeding project with rabbits.

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Animal Physical Therapist

Skills Needed

- Compassion
- Resilience
- Time Management

Foundational SAE Ideas

Research the role of physical therapists in animal rehabilitation and therapy.

Explore common injuries and conditions in animals and their rehabilitation strategies.

Immersion SAE Ideas

Start a dog walking business to learn about proper handling.

Work for a local vet clinic.

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Animal Welfare Specialist/ Auditor

Skills Needed

- Empathy
- Conflict Resolution
- Communication

Foundational SAE Ideas

Learn about animal welfare standards and auditing protocols.

Study ethical considerations related to animal welfare.

Immersion SAE Ideas

Intern with a local humane society or animal shelter.

Manage an animal welfare club within your agriculture program, where students learn about animal rights issues, organize adoption events and advocate for responsible pet ownership in the community.

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Animal/Horse Trainer

Skills Needed

- Patience
- Adaptability
- Tenacity

Foundational SAE Ideas

Explore career pathways in equestrian centers, farms, zoos and competitive sports arenas.

Learn about the specific needs and behaviors of different animal species, particularly horses.

Immersion SAE Ideas

Manage a horse training program within your agricultural science program, where students learn about horse behavior and training techniques and participate in local horse shows and competitions.

Work for a local livestock trainer to learn proper handling and care.

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Apiary Worker/Beekeeper

Skills Needed

- Stamina
- Safety Awareness
- Attention to Detail

Foundational SAE Ideas

Identify potential hazards associated with working with bees and managing beehives.

Explore sustainable beekeeping practices and their impact on bee health and environmental conservation.

Immersion SAE Ideas

Start a beekeeping education program within your agriculture program.

Partner with a local organization to establish pollinator-friendly habitats in community gardens and parks.

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Artificial Insemination Technician

Skills Needed

- Technical Skills
- Stamina
- Attention to Detail

Foundational SAE Ideas

Create a savings plan for education required for an artificial insemination technician.

Shadow an artificial insemination technician.

Immersion SAE Ideas

Intern at a local dairy farm or cattle ranch, learning artificial insemination techniques for improving genetic traits and reproductive efficiency.

Partner with a local research station to conduct a research project on improving conception rates through artificial insemination in dairy cattle.

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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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Beef Cattle Farm Worker

Skills Needed

- Handling and Safety
- Animal Husbandry
- Adaptability

Foundational SAE Ideas

Visit a local beef cattle farm to observe daily operations, learn about different roles and gain insights into the beef cattle industry.

Research current events in the beef cattle industry.

Immersion SAE Ideas

Work at a local beef cattle ranch or feedlot.

Research different types of cattle feeds and their effects on growth and quality.

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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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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.

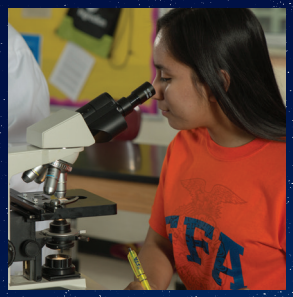
Immersion SAE Ideas

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.

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Biostatistician

Skills Needed

- Problem-Solving
- Analytical Thinking
- Ethical Judgment

Foundational SAE Ideas

Research and present on how biostatistical methods are used in agricultural studies.

Learn about best practices for securing sensitive data and maintaining confidentiality in research settings.

Immersion SAE Ideas

Intern at a local agricultural research facility.

Conduct a research project analyzing crop yield data from local farms to identify trends and factors influencing productivity.

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Bloodstock Agent

Skills Needed

- Adaptability
- Customer Service
- Communication

Foundational SAE Ideas

Learn and practice safe methods for handling and managing horses.

Compare and contrast the care of horses for different purposes.

Immersion SAE Ideas

Volunteer with organizations that rescue and rehabilitate horses.

Secure an internship with an equine business.

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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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Breeding Manager/ Multiplication Manager

Skills Needed

- Empathy
- Industry Knowledge
- Teamwork

Foundational SAE Ideas

Learn safety practices for handling and managing breeding animals.

Research different career pathways within the field of animal breeding.

Immersion SAE Ideas

Work for a local livestock producer with a focus on breeding livestock utilizing artificial insemination.

Create a business specializing in breeding animals for specific traits or purposes, such as show animals, working dogs or rare breeds.

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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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Carcass Merchandiser

Skills Needed

- Product Knowledge
- Adaptability
- Negotiation

Foundational SAE Ideas

Learn about and conduct a hazard analysis for a meat processing environment in your agriculture department.

Explore and report on sustainable and humane practices in livestock production and their impact on meat quality.

Immersion SAE Ideas

Research how different types of meat cuts and grades influence consumer buying decisions.

Set up a stall at a local farmers' market to sell and promote quality meat products.

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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 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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Community/Urban Farmer

Skills Needed

- Sustainability
- Adaptability
- Industry Knowledge

Foundational SAE Ideas

Create and share recipes using produce from the garden.

Organize a cooking demonstration or workshop for your community or school.

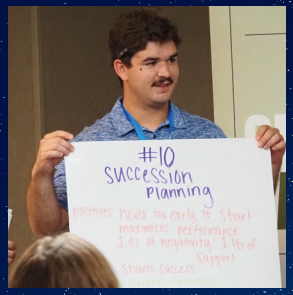
Immersion SAE Ideas

Start your own urban farm or community garden.

Develop and deliver educational programs about urban farming and sustainability to local schools and youth groups.

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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.

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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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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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Dairy Farm Manager

Skills Needed

- Animal Handling
- Nutrition Management
- Teamwork

Foundational SAE Ideas

Learn about safety practices for working with dairy cattle and farm equipment.

Learn basic financial planning for farm operations.

Immersion SAE Ideas

Organize educational programs or tours for local schools or community groups to teach about dairy farming practices.

Set up a school-based business to sell dairy products sourced from local farms.

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Dairy Farm Worker

Skills Needed

- Animal Care
- Cleaning and Sanitation
- Health Monitoring

Foundational SAE Ideas

Visit and tour local dairy farms.

Research career opportunities in dairy farming and related fields, and present your findings to peers.

Immersion SAE Ideas

Work at a local dairy farm.

Research methods to improve milk production efficiency.

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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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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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Embryologist

Skills Needed

- Quality Control
- Lab Equipment Operation
- Attention to Detail

Foundational SAE Ideas

Learn about and practice safety protocols for working in a laboratory.

Research how embryology is applied in agricultural biotechnology.

Immersion SAE Ideas

Work at a research facility focusing on the development of reproductive technologies in agriculture animals.

Work for a local livestock producer.

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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 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.

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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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Farm Operations/Production Manager

Skills Needed

- Crop and Livestock Management
- Equipment Operation and Maintenance
- Safety Awareness

Foundational SAE Ideas

Research sustainable farming practices and their impact on farm operations and productivity.

Research safety procedures needed for working on a farm.

Immersion SAE Ideas

Work for a local farm.

Host farm safety workshops for elementary students.

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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.

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Farrier

Skills Needed

- Equine Anatomy and Physiology
- Safety Awareness
- Attention to Detail

Foundational SAE Ideas

Create a plan for obtaining necessary training and certifications to become a farrier.

Create a personal budget to manage income and track expenses as if you were employed in this field.

Immersion SAE Ideas

Work at a horse stable or farm.

Conduct educational workshops about horses and their care for local horse owners and 4-H clubs.

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Feed Mill Manager

Skills Needed

- Feed Formulation
- Quality Control
- Equipment Maintenance

Foundational SAE Ideas

Research and present on the nutritional requirements of different livestock.

Create a resume and compare skills attained with skills needed.

Immersion SAE Ideas

Work at an agricultural feed supply store.

Research the efficiency of different feed types on animal health and performance.

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Feed Mill Operator

Skills Needed

- Equipment Operation
- Safety Awareness
- Quality Assurance

Foundational SAE Ideas

Create a simple chart or diagram showing the basic steps in feed production for a livestock species of your choosing.

Write a report on the role of a feed mill operator.

Immersion SAE Ideas

Work for your local feed mill or elevator.

Research how different feed qualities affect livestock health and productivity.

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Feedlot Manager

Skills Needed

- Nutrition Management
- Quality Assurance
- Leadership

Foundational SAE Ideas

Shadow a feedlot manager for a day.

Develop a poster outlining basic safety procedures for managing a feedlot.

Immersion SAE Ideas

Work at a local feedlot or livestock operation.

Start a small scale livestock operation at school or home.

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Fermentation Scientist

Skills Needed

- Microbiology
- Biochemistry
- Quality Control

Foundational SAE Ideas

Create a presentation or poster explaining the basics of fermentation and its applications in agriculture.

Research the educational requirements for becoming a fermentation scientist.

Immersion SAE Ideas

Start a business producing fermentation-based products, such as kombucha, yogurt or fermented vegetables.

Research how fermentation affects the nutritional content, flavor and safety of food products.

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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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Food Animal Veterinarian

Skills Needed

- Animal Surgery
- Animal Nutrition
- Reproductive Health

Foundational SAE Ideas

Create a basic guide on common health issues in food animals.

Identify essential skills needed for veterinary medicine and develop a plan to acquire these skills.

Immersion SAE Ideas

Investigate how different nutritional strategies affect the health and productivity of food animals.

Work for a livestock operation.

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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.

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Formulator

Skills Needed

- Product Development
- Quality Control
- Manufacturing Processes

Foundational SAE Ideas

Create a presentation on a specific formulation process used in agriculture.

Develop a flowchart that outlines the process of formulating an agricultural product.

Immersion SAE Ideas

Develop and sell formulation kits that allow consumers to create their own products at home, such as bath bombs or lotions.

Research the role of specific ingredients in successful formulations.

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General Manager

Skills Needed

- Financial Management
- Strategic Planning
- Budgeting and Forecasting

Foundational SAE Ideas

Create a day in the life of a general manager of an agricultural business.

Research various career paths that lead to becoming a general manager in agriculture.

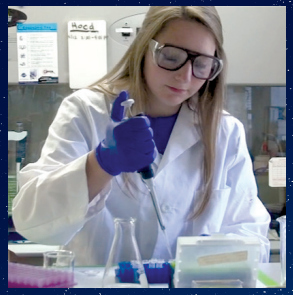
Immersion SAE Ideas

Help manage school-based enterprises.

Create a school-based store that sells agricultural products.

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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.

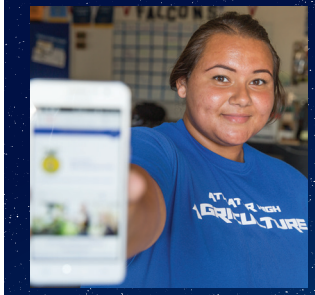
Immersion SAE Ideas

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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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 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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Herd Nutritionist

Skills Needed

- Feed Analysis
- Health Monitoring
- Research Skills

Foundational SAE Ideas

Research nutritional requirements for different types of livestock.

Create an educational plan outlining necessary courses and training for a career in herd nutrition.

Immersion SAE Ideas

Research the impact of different livestock feeds on performance and growth.

Work for a local livestock producer.

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Herdsperson

Skills Needed

- Livestock Handling
- Breeding Knowledge
- Record Keeping

Foundational SAE Ideas

Create a manual detailing daily care routines for different types of livestock.

Research safety considerations for working as a herdsperson.

Immersion SAE Ideas

Implement a health monitoring project at your school's farm or a local partner farm.

Organize and lead workshops for 4-H members about best practices for livestock health management.

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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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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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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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Laboratory Manager

Skills Needed

- Safety Awareness
- Equipment Calibration and Maintenance
- Problem-Solving

Foundational SAE Ideas

Practice common interview questions related to this career.

Study different types of laboratory equipment used in agricultural research.

Immersion SAE Ideas

Work at an agricultural research lab.

Conduct agriculture-related research projects in your agriculture department.

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Laboratory Technician

Skills Needed

- Laboratory Skills
- Laboratory Equipment Operation
- Data Collection

Foundational SAE Ideas

Research career paths related to laboratory technician roles in agriculture.

Practice common interview questions for laboratory technician roles.

Immersion SAE Ideas

Work in a lab focused on plant breeding.

Research and compare different soil nutrient analysis methods.

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Live Operations Manager

Skills Needed

- Communication
- Leadership
- Decision-Making

Foundational SAE Ideas

Develop an educational guide on effective poultry farm management practices.

Shadow a poultry farmer.

Immersion SAE Ideas

Hatch and raise chicks in your agriculture department.

Work at a poultry farm or hatchery.

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Livestock Auctioneer

Skills Needed

- Livestock Valuation and Pricing
- Auctioneering Techniques
- Sales and Negotiation

Foundational SAE Ideas

Research and analyze current market trends and pricing in livestock auctions.

Visit and observe livestock auctions to understand the dynamics of the auction environment.

Immersion SAE Ideas

Set up a mock auction event at school where students can practice auctioneering, bidding and managing the auction process.

Work for a livestock sales barn.

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Livestock Buyer

Skills Needed

- Livestock Evaluation
- Market Analysis
- Decision-Making

Foundational SAE Ideas

Research safety protocols related to handling and transporting livestock.

Study current trends and pricing strategies in livestock markets.

Immersion SAE Ideas

Host livestock judging clinics for 4-H and FFA members.

Work for a livestock buyer or broker.

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Livestock Loader

Skills Needed

- Livestock Handling
- Loading and Unloading Procedures
- Animal Safety and Welfare

Foundational SAE Ideas

Create a safety plan addressing potential risks associated with livestock loading.

Shadow a livestock producer.

Immersion SAE Ideas

Host livestock showing clinics for 4-H and FFA members to learn proper handling.

Assist with loading operations at a livestock auction.

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Location/Plant Manager or Superintendent

Skills Needed

- Staff Supervision and Training
- Regulatory Compliance
- Facility Operations Management

Foundational SAE Ideas

Tour a manufacturing or processing plant.

Read and summarize articles or reports on plant management and agricultural processing.

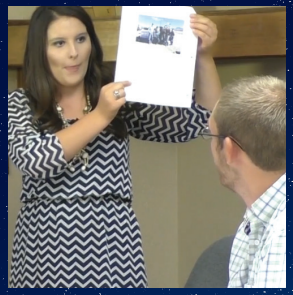
Immersion SAE Ideas

Work at a manufacturing facility.

Work as an agriculture mechanic shop foreman.

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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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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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Meat Inspector

Skills Needed

- Food Safety Regulations
- Inspection Techniques
- Quality Assurance

Foundational SAE Ideas

Learn about the different cuts of meat products.

Study the different quality standards and grading systems used for meat products.

Immersion SAE Ideas

Work at a meat processing or packing plant.

Conduct workshops for community members about how to properly cook meat.

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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.

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Millwright

Skills Needed

- Welding and Fabrication
- Blueprint Reading
- Systems Installation and Maintenance

Foundational SAE Ideas

Research various career options within industrial maintenance.

Conduct a hazard assessment of your agricultural mechanics shop.

Immersion SAE Ideas

Research how regular maintenance and proper installation impact the efficiency and longevity of machinery.

Manage and maintain the equipment in your agricultural mechanics lab.

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Molecular Biologist

Skills Needed

- DNA/RNA Extraction and Analysis
- Laboratory Safety and Protocols
- Critical Thinking

Foundational SAE Ideas

Review safety procedures for handling biological materials and chemicals in a laboratory setting.

Learn about the use of PPE, such as lab coats, gloves and eye protection, in a laboratory setting.

Immersion SAE Ideas

Develop and sell simple educational kits that allow students to perform basic biology experiments at home or in classrooms.

Research which fruits allow for more DNA to be extracted and complete an agriscience fair project comparing DNA samples and their availability.

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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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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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Originator

Skills Needed

- Knowledge of Financial Products
- Negotiation
- Persuasion

Foundational SAE Ideas

Create a report or presentation summarizing recent agricultural innovations and their impact on the industry.

Research careers available as an originator.

Immersion SAE Ideas

Develop a project to connect local farms with your school's cafeteria.

Start a subscription service that delivers local agricultural products to consumers.

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Packaging Engineer

Skills Needed

- Regulatory Compliance
- Problem-Solving
- Attention to Detail

Foundational SAE Ideas

Develop a simple project tracker to manage tasks and timelines.

Research and compare the costs of different packaging materials for a specific product.

Immersion SAE Ideas

Create a business focused on providing sustainable and eco-friendly packaging options.

Work at a facility that processes recyclable packaging materials.

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Packaging Manager

Skills Needed

- Operations Management
- Inventory Management
- Supply Chain Logistics

Foundational SAE Ideas

Investigate various roles within packaging management.

Create a poster that outlines the essential safety practices for working in the packaging industry.

Immersion SAE Ideas

Work for a distribution center.

Research and analyze different packaging methods and their efficiency.

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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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Pen Rider

Skills Needed

- Livestock Handling
- Safety Awareness
- Stamina

Foundational SAE Ideas

Draw a simple layout of a livestock pen.

Look up different roles related to livestock management.

Immersion SAE Ideas

Work for a local cattle ranch.

Investigate how different pen riding techniques impact livestock behavior and stress levels.

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Pet Groomer

Skills Needed

- Pet Grooming Techniques
- Customer Service
- Pet Handling

Foundational SAE Ideas

Create a checklist of grooming tasks for different types of pets.

Research and compare pet grooming training programs in your area.

Immersion SAE Ideas

Work at a pet grooming salon.

Start a school-based pet grooming business in your agriculture department.

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Plant Operator

Skills Needed

- Production Efficiency
- Troubleshooting
- Equipment Operation and Maintenance

Foundational SAE Ideas

Research and create a flowchart that maps out the steps in a specific plant operation.

Tour an agricultural production plant.

Immersion SAE Ideas

Create detailed guides or manuals for operating common equipment.

Work at a food processing facility.

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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.

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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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Poultry Farm Worker

Skills Needed

- Handling and Safety
- Disease Management
- Cleaning and Sanitation

Foundational SAE Ideas

Research different breeds of poultry and their specific care requirements.

Develop a brochure that provides information about poultry care, including feeding, housing and common health issues.

Immersion SAE Ideas

Work at a local poultry farm.

Research the effects of different feed types on poultry growth and health.

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Poultry Hatchery Manager

Skills Needed

- Biosecurity Protocols
- Personnel Management
- Incubation Techniques

Foundational SAE Ideas

Learn about incubation and hatching processes.

Design a poster that explains the hatchery process, from egg collection to chick hatching.

Immersion SAE Ideas

Research various incubation techniques and their impact on hatch rates and chick health.

Start a business renting out educational hatching kits to local elementary classrooms.

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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.

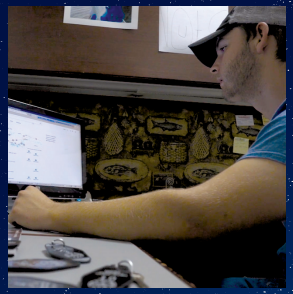
Immersion SAE Ideas

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 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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Quality Assurance Auditor

Skills Needed

- Auditing
- Regulatory Compliance
- Data Analysis

Foundational SAE Ideas

Research how agriculture issues affect this career.

Assess the safety measures in place in your agriculture department.

Immersion SAE Ideas

Intern with the quality assurance department of an agricultural business.

Intern as an inspector for the agriculture department.

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Quality Assurance Manager

Skills Needed

- Audit Management
- Training and Development
- Decision-Making

Foundational SAE Ideas

Develop a resume that highlights your skills, experiences and achievements.

Take on a leadership role in a school club or community group and relate those skills to the skills needed in this career field.

Immersion SAE Ideas

Work at a food processing plant.

Manage a quality assurance program for a school store or concession stand.

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Quality Control Technician

Skills Needed

- Testing and Inspection Methods
- Equipment Calibration and Maintenance
- Documentation

Foundational SAE Ideas

Research how quality control is applied in agriculture.

Develop a checklist for inspecting agricultural products.

Immersion SAE Ideas

Work at an agricultural processing facility.

Conduct a research project about how quality control processes influence customer satisfaction and retention.

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Ranch Manager

Skills Needed

- Livestock Management
- Animal Health and Welfare
- Facilities and Equipment Maintenance

Foundational SAE Ideas

Compare the management plans of two different ranches.

Learn about range management techniques for maintaining healthy pastures and grazing lands.

Immersion SAE Ideas

Start a small livestock-related business.

Manage the agriculture department livestock facility.

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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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Regulatory Scientist

Skills Needed

- Data Analysis and Interpretation
- Technical Writing
- Attention to Detail

Foundational SAE Ideas

Research current trends in agricultural regulations.

Tour an agricultural research facility or extension office.

Immersion SAE Ideas

Research how changes in regulations affect agricultural practices and develop presentations to educate the public.

Oversee a compliance project for a school farm or garden, ensuring it adheres to relevant regulations or best practices.

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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.

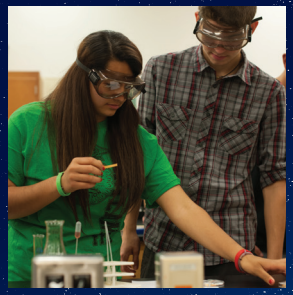
Immersion SAE Ideas

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 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.

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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.

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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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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.

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Ruminant Nutritionist

Skills Needed

- Ruminant Digestive Physiology
- Feed Formulation
- Nutrient Balancing

Foundational SAE Ideas

Research various career paths within animal nutrition.

Create a mock-up of a feed label.

Immersion SAE Ideas

Raise livestock to show at county and state fairs.

Start a small business offering custom feed blending services for local 4-H and FFA members.

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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: Feed and Animal Health

Skills Needed

- Knowledge of Animal Nutrition
- Feed Formulation
- Sales Techniques

Foundational SAE Ideas

Interview a livestock producer or pet owner about feed preferences.

Develop a comparison chart for various feed and animal health products.

Immersion SAE Ideas

Start a business selling livestock show supplies.

Start a nonprofit focused on collecting pet food and health supplies to donate to local animal shelters.

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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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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.

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Scheduler

Skills Needed

- Time Management
- Planning
- Prioritization

Foundational SAE Ideas

Investigate how various scheduling software tools are used in agricultural settings.

Research how scheduling impacts various agricultural operations.

Immersion SAE Ideas

Assist a teacher with scheduling classroom activities, managing assignments and coordinating student projects.

Work in a manufacturing or processing facility.

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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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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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Small Animal Veterinarian

Skills Needed

- Animal Care and Welfare
- Laboratory and Imaging
- Diagnostic Techniques

Foundational SAE Ideas

Learn about safe techniques for handling small animals to minimize stress and injury during examinations and treatments.

Research safety protocol for a veterinary clinic.

Immersion SAE Ideas

Work at an animal shelter.

Start a pet sitting business offering care for small animals when owners are away.

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Small Ruminant Farm Worker

Skills Needed

- Handling and Safety
- Management
- Equipment Operation and Maintenance

Foundational SAE Ideas

Research common health issues in small ruminants.

Research different breeds of small ruminants and create a presentation on their characteristics, uses and care requirements.

Immersion SAE Ideas

Launch a business creating and selling goat milk soap or other products.

Start an annual petting zoo event for elementary students to learn about small ruminant animals.

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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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Sorter

Skills Needed

- Equipment Operation
- Efficiency
- Stamina

Foundational SAE Ideas

Create a flow chart of the sorting process for a specific product or material.

Learn about different sorting criteria used in agriculture.

Immersion SAE Ideas

Work at a facility that packs fruits for distribution.

Work at a recycling center by sorting recyclable materials.

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Sow Farm Manager

Skills Needed

- Animal Health and Management
- Reproduction and Breeding Knowledge
- Nutrient Balancing

Foundational SAE Ideas

Identify different breeding strategies and genetics used in sow farms and create a poster.

Learn about biosecurity measures to prevent disease outbreaks on the farm.

Immersion SAE Ideas

Work at a swine operation.

Research how different housing environments affect the welfare and productivity of pigs.

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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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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.

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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.

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Swine Finishing Farm Manager

Skills Needed

- Animal Welfare
- Facilities Management
- Record Keeping

Foundational SAE Ideas

Develop a detailed management plan for a hypothetical swine finishing farm.

Learn about common diseases in swine and write a social media post.

Immersion SAE Ideas

Research different feed additives and their effects on the growth rates, feed efficiency and overall health of finishing pigs.

Create guides for 4-H and FFA members about raising and showing swine.

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Swine Nursery Farm Worker

Skills Needed

- Animal Handling
- Equipment Operation and Maintenance
- Cleaning and Sanitation

Foundational SAE Ideas

Research and observe pig behavior.

Learn about best practices for maintaining accurate records of animal health, feed usage and production metrics.

Immersion SAE Ideas

Intern at a large swine production facility.

Start a swine operation on your agriculture department farm.

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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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Therapeutic Riding Instructor

Skills Needed

- Equine Management and Care
- Safety Awareness
- First Aid and CPR

Foundational SAE Ideas

Participate in horsemanship and riding lessons.

Shadow a therapeutic riding instructor.

Immersion SAE Ideas

Establish a therapeutic riding program or nonprofit organization offering equine-assisted therapy services for individuals with disabilities or special needs in the community.

Collaborate with special education teachers to establish a therapeutic riding program at school.

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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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Veterinary Assistant

Skills Needed

- Animal Handling
- Compassion
- Sample Collection

Foundational SAE Ideas

Create a budget for pursuing certification as a veterinary assistant.

Research safety training courses on handling animals safely, preventing zoonotic diseases and maintaining hygiene standards.

Immersion SAE Ideas

Work at a veterinary clinic or animal hospital.

Start a pet care service business (e.g., pet sitting, dog walking, grooming) to provide care services for pets in the community.

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Veterinary Pathologist

Skills Needed

- Diagnostic Techniques
- Report Writing
- Disease Investigation and Research

Foundational SAE Ideas

Study veterinary medicine principles, infectious diseases and pathology case studies.

Identify postsecondary options for a career as a veterinary pathologist.

Immersion SAE Ideas

Work at a veterinary clinic or animal hospital.

Volunteer at animal shelters or wildlife rehabilitation centers.

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Veterinary Technician

Skills Needed

- Animal Care
- Laboratory Procedures
- Compassion

Foundational SAE Ideas

Create a budget for pursuing certification as a veterinary technician.

Collaborate with a local vet clinic to create a poster about the practice.

Immersion SAE Ideas

Conduct a research project on a veterinary-related topic.

Collaborate with veterinary professionals to organize a regular veterinary health fair or workshop at school.

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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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Zoologist

Skills Needed

- Taxonomy and Animal Classification
- Field Research
- Problem-Solving

Foundational SAE Ideas

Study wildlife conservation principles, endangered species management and ethical considerations in zoology.

Identify what safety considerations are needed for a zoologist.

Immersion SAE Ideas

Conduct a research study on local wildlife species, monitoring behavior, tracking movements and assessing habitat suitability.

Develop educational materials about local wildlife species and conservation issues for school groups, community organizations or visitors at nature centers.

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