

## **Animal Science**

1. **Raising chickens for eggs**
2. **Breeding rabbits**
3. **Training service dogs**
4. **Managing a dairy cow**
5. **Caring for sheep**
6. **Raising pigs for market**
7. **Aquaculture (fish farming)**
8. **Beekeeping**
9. **Alpaca or llama farming**
10. **Goat farming**

## **Plant Science**

11. **Growing organic vegetables**
12. **Hydroponic lettuce production**
13. **Herb gardening**
14. **Orchard management**
15. **Flower production**
16. **Field crop production (corn, soybeans)**
17. **Urban rooftop gardening**
18. **Mushroom cultivation**
19. **Growing bonsai trees**
20. **Christmas tree farming**

## **Agribusiness**

21. **Farmers' market management**
22. **Creating a CSA (Community Supported Agriculture)**
23. **Farm-to-table restaurant collaboration**
24. **Starting a farm blog**
25. **Organic food delivery service**
26. **Farm equipment maintenance**
27. **Agro-tourism business**
28. **Seed sales and distribution**
29. **Farm insurance consulting**
30. **Agricultural investment analysis**

## **Agricultural Mechanics**

31. **Small engine repair**
32. **Welding and fabrication**

33. **Tractor restoration**
34. **Irrigation system design**
35. **Greenhouse construction**
36. **Precision agriculture technology**
37. **Grain handling and storage**
38. **Automated feeding systems**
39. **Wind turbine maintenance**
40. **Solar panel installation for farms**

## **Environmental Science**

41. **Wetland restoration**
42. **Soil erosion control**
43. **Composting program**
44. **Water quality testing**
45. **Forest management**
46. **Pollinator habitat creation**
47. **Carbon farming**
48. **Aquaponics system**
49. **Integrated pest management**
50. **Alternative energy research**

## **Food Science and Safety**

51. **Creating a food preservation guide**
52. **Food product development**
53. **Food safety inspection**
54. **Farmers' market food handling**
55. **Testing agricultural chemicals**
56. **Developing farm-to-school programs**
57. **Aquaculture food safety**
58. **Meat processing**
59. **Dairy product quality testing**
60. **Creating a farm-based cooking show**

## **Forestry**

61. **Timber harvesting**
62. **Forest fire prevention**
63. **Tree nursery management**
64. **Woodlot management**
65. **Wildlife habitat improvement**
66. **Forest inventory**
67. **Non-timber forest products**

- 68. **Forest recreation planning**
- 69. **Urban forestry**
- 70. **Agroforestry**

## **Horticulture**

- 71. **Landscaping design**
- 72. **Greenhouse management**
- 73. **Turfgrass management**
- 74. **Interior plantscaping**
- 75. **Arborist services**
- 76. **Golf course management**
- 77. **Nursery operation**
- 78. **Floral design**
- 79. **Botanical garden management**
- 80. **Hydroseeding business**

## **Veterinary Science**

- 81. **Large animal veterinary care**
- 82. **Small animal veterinary care**
- 83. **Equine therapy**
- 84. **Pet grooming business**
- 85. **Animal behaviorist**
- 86. **Wildlife rehabilitation**
- 87. **Exotic animal care**
- 88. **Zoo veterinarian**
- 89. **Animal nutrition consulting**
- 90. **Animal pharmaceutical sales**

## **Ag Communications**

- 91. **Podcast on agricultural issues**
- 92. **Social media management for farms**
- 93. **Agricultural journalism**
- 94. **Creating educational farm videos**
- 95. **Agribusiness public relations**
- 96. **Farm radio broadcasting**
- 97. **Developing farm educational apps**
- 98. **Graphic design for agriculture**
- 99. **Photography for agricultural publications**
- 100. **Farm website development**

## **Agricultural Education**

101. **Developing a farm-based curriculum**
102. **Teaching farm safety**
103. **Leading farm tours**
104. **4-H club leadership**
105. **Agricultural workshop coordination**
106. **Organizing farm field trips**
107. **Developing farm educational materials**
108. **Leading gardening workshops**
109. **School garden project management**
110. **Agricultural science fair mentorship**

## **Agricultural Leadership**

111. **Youth agricultural advocacy**
112. **Organizing farm policy debates**
113. **Leadership in agricultural organizations**
114. **Community farm project management**
115. **Agricultural cooperative leadership**
116. **Political advocacy for farmers**
117. **International agricultural development**
118. **Agribusiness entrepreneurship**
119. **Women in agriculture leadership**
120. **Public speaking on agricultural issues**

## **Aquaculture**

121. **Fish hatchery management**
122. **Aquatic plant cultivation**
123. **Shellfish farming**
124. **Fish feed formulation**
125. **Water quality management in aquaculture**
126. **Aquarium maintenance services**
127. **Ornamental fish breeding**
128. **Crayfish farming**
129. **Aquaponics system management**
130. **Marine fish farming**

## **Dairy Production**

131. **Dairy cow genetics improvement**
132. **Butter and cheese production**
133. **Milking parlor management**
134. **Dairy cow nutrition consulting**
135. **Ice cream production**

- 136. Dairy product marketing
- 137. Dairy farm sustainability practices
- 138. Robotic milking system management
- 139. Dairy farm financial analysis
- 140. Dairy farm succession planning

## **Fiber and Textile Production**

- 141. Alpaca fiber processing
- 142. Sheep wool spinning
- 143. Natural dye production
- 144. Fiber arts business
- 145. Textile recycling
- 146. Silkworm farming
- 147. Cotton farm management
- 148. Handweaving business
- 149. Knitting or crochet business
- 150. Textile design

## **Organic Farming**

- 151. Certified organic crop production
- 152. Organic livestock certification
- 153. Organic pest management
- 154. Organic fertilizer production
- 155. Organic farm consulting
- 156. Farmers' market for organic products
- 157. Organic food co-op management
- 158. Organic certification education
- 159. Organic wine production
- 160. Community-supported organic farm

## **Urban Agriculture**

- 161. Rooftop gardening
- 162. Vertical farming
- 163. Urban aquaponics
- 164. Community garden management
- 165. Urban beekeeping
- 166. Hydroponic farm in urban settings
- 167. Edible landscaping
- 168. Urban mushroom farming
- 169. Urban composting
- 170. Indoor herb production

## **Viticulture (Grape Growing)**

- 171. **Wine grape production**
- 172. **Grapevine nursery operation**
- 173. **Vineyard management**
- 174. **Wine tasting room management**
- 175. **Wine tourism**
- 176. **Grape harvest and processing**
- 177. **Sparkling wine production**
- 178. **Grape variety research**
- 179. **Wine marketing**
- 180. **Wine cellar management**

## **International Agriculture**

- 181. **Agricultural development in developing countries**
- 182. **Fair trade agriculture**
- 183. **International agricultural trade analysis**
- 184. **Agricultural supply chain management**
- 185. **Agricultural extension services abroad**
- 186. **Global agricultural policy analysis**
- 187. **Sustainable agriculture in global contexts**
- 188. **Farm equipment donation programs**
- 189. **Cross-cultural farm exchange programs**
- 190. **Agricultural technology transfer**

## **Agricultural Technology**

- 191. **Drone use in agriculture**
- 192. **Precision farming software development**
- 193. **Satellite imagery for crop monitoring**
- 194. **Blockchain in agriculture**
- 195. **Smart irrigation systems**
- 196. **Robotics in agriculture**
- 197. **Biotechnology in crop improvement**
- 198. **IoT applications in agriculture**
- 199. **Data analytics for farm management**
- 200. **3D printing in agriculture**

These project ideas span various aspects of agriculture and related fields, providing a broad spectrum of opportunities for exploration and learning within the SAE framework.