

 **Activity 1.2.2 Agriscience Careers and Me****Purpose**

Science and technology are instrumental for producing and processing of food, fiber, and renewable natural resources, and are the basis for many careers in agriculture. Studying agriscience careers may help you identify an agriscience career right for you and guide you to the appropriate training and experience necessary for a successful and rewarding career.

An estimated 300 different careers await you if you chose a profession in the field of agriculture. There is a need for approximately 400,000 people to fill positions in agriscience careers each year. Of those positions, there are typically only 100,000 filled by people who are educated and trained in agriscience. The remaining openings go to people who are trained in fields outside of agriculture. Openings in agriscience include areas such as mechanics, sales, genetic engineering, nutrition, and extension.

Materials**Per student:**

- Computer with Internet access
- Pencil
- *Agriscience Notebook*

In this activity, you will explore the career opportunities awaiting you in the fields of agriculture and natural resources. First, you will need to access the www.careerwise.minnstate.edu website.

Part One – Careers in Agriculture

1. Go to www.careerwise.minnstate.edu.
2. Select **Explore Careers** at the top left of the screen.
3. Under **Research Careers**, select **Career Clusters and Pathways**.
4. Click on **Career Clusters** and then select **Agriculture, Food, and Natural Resources** from the choices in the center.
5. Read the introductory paragraph and select **Pathways in this cluster**.
6. Within the AFNR cluster, you will see seven career pathways. Take some time to explore each pathway by clicking on the pathway. On *Activity 1.2.2 Student Worksheet*, record the following information for each pathway in Table 1.
 - Brief overview
 - Interesting careers
 - Education requirements

Conclusion

1. Which of the pathways reviewed in Part One interests you the most?

The animal systems pathway

2. How did your interests relate to the careers and majors you selected?

I like animals and plants, so I tried to choose as many careers that related to those things

3. List three characteristics that make the careers you chose appealing to you.

1. They sounded interesting

Activity 1.2.2 Student Worksheet

Table 1. Agriculture Pathways

Pathways	Overview	Careers	Education Requirements
Agribusiness systems	Occupations involved in the coordination and development of agricultural commodities.	College agricultural science teacher Farmers and ranchers	Advanced degree and a bachelor's degree
Animal systems	Occupations related to the raising and caring of animals.	Animal scientists, veterinarian, biochemist	Advanced degree
Environmental service systems	Occupations involved in water and air pollution control.	Environmental engineer, environmental scientists	Advanced degree or bachelor's degree
Food products and processing systems	Occupations involved in bulk food production.	Butchers/meat cutters, food scientists	Bachelor's degree
Natural resources systems	Occupations that develop, maintain and manage natural resources.	Foresters, hydrologists, geoscientists	Advanced degree or bachelor's degree
Plant systems	Occupations related to growing food & feed with the study of plants	Soil and plant scientists, farmers and ranchers	Advanced degree or bachelor's degree
Power, structural and technical systems	Power, structural, and technical systems workers apply knowledge of engineering	Agricultural engineers, mechanics	Bachelor's