

 **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.mnscu.edu website.

Part One – Careers in Agriculture

1. Go to www.careerwise.mnscu.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

Part Two – Finding Your Interests

1. At the top menu, select **Assess Yourself**.
2. Next select **Take an Assessment**.
3. Select **Interest Assessment**.

4. Read the information about the Interest Assessment and then select **Get Started**.
5. Complete the Interest Assessment. When finished, record the Interest Profile Graph in Table 2.
6. Review the descriptions for your top three letters, and record how each of those letters describes you.
7. Select **Next** and enter the education level that interests you at this time.
8. Select **View careers and majors** and review the careers listed.
9. Find two to three careers that interest you and record in the first row of Table 3.
10. Select each career you have chosen and review the *Quick Facts* and links associated with the career. Note the items about the career that interest you in the second row of Table 3.
11. Select the **Majors** tab at the top of the screen. Review the Majors listed and find two or three that interest you and record in the first row of Table 4.
12. Click on each major you have chosen and review the links associated with the major. Record the items about the major that interest you in the second row of Table 4.
13. Insert a completed copy of *Activity 1.2.2 Student Worksheet* into clear plastic sheets in *Section I Careers* of your *Career Portfolio*.

Conclusion

1. Which of the pathways reviewed in Part One interests you the most? The pathway that interested me the most was Food Products and Processing Systems.

2. How did your interests relate to the careers and majors you selected? It helps me relate to them because they allow me to choose a major or carrer that I would enjoy.

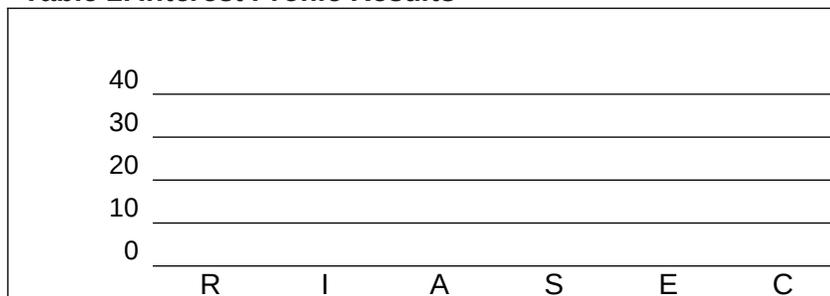
3. List three characteristics that make the careers you chose appealing to you. Three characteristics that make my careers appealing because I like to cook, be in charge, and build stuff.

Activity 1.2.2 Student Worksheet

Table 1. Agriculture Pathways

Pathways	Overview	Careers	Ed
Agribusiness Systems	Occupations involved in the coordination of all activities that contribute to the production, processing, marketing, distribution, financing and development of agricultural commodities, plant and animal products, and other natural resources.	Farm and management advisor.	Ba
Animal Systems	Occupations related to the raising and caring of animals and developing more efficient ways of producing and processing meat, poultry, eggs and dairy products.	Animal Trainers	les
Environmental Service Systems	Occupations involved in bulk food production, the discovery of new food sources, the analysis of food content, and the development of ways to process, preserve, package or store food according to consumer needs, and.	Compliance officers	1-
Food Products and Processing Systems	Occupations involved in bulk food production, the discovery of new food sources, the analysis of food content, and the development of ways to process, preserve, package or store food according to consumer needs, and. I	Food Batchmakers	Hi
Natural Resources Systems	Occupations that develop, use, maintain, manage, and analyze natural resources. Includes catching and trapping various types of marine life.	Hydrologists	Ac
Plant Systems	Occupations related to growing food, feed, and fiber crops, and the study of plants and their growth to help producers meet consumer demand while conserving natural resources and maintaining the environment.	Supervisors of Farming, Fishing, and Forestry Workers	les
Power, Structural and Technical Systems	knowledge of engineering, hydraulics, pneumatics, electronics, power, structures, and controls to the field of agriculture.	Agricultural Engineer	Ba

Table 2. Interest Profile Results



R = Realistic	Total: 17
I = Investigative	Total: 20
A = Artistic	Total: 24
S = Social	Total: 20
E = Enterprising	Total: 30
C = Conventional	Total: 9

Top Letter: E

Second Letter: A

Third Letter: I & S

Table 3. My Career Options

Chef/ Head Cook(2-year degree)	Fine Artist	Singer
<ul style="list-style-type: none"> ● Train food preparation or food service personnel. ● Create new recipes or food presentations. ● Plan menu options. ● Determine prices for menu items. 	<ul style="list-style-type: none"> ● Create computer-generated graphics or animation. ● Develop artistic or design concepts for decoration, exhibition, or commercial purposes. ● Draw detailed or technical illustrations. ● Research new technologies. 	<ul style="list-style-type: none"> ● Audition for ● Perform for ● Perform mu ● Create mus arrangeme

Table 4. My College Major Interests

Culinary Arts and other services	Drama/Theatre Arts and Stage Craft	Fine Arts Studios
<ul style="list-style-type: none"> ● Baking and Pastry Arts/Baker/Pastry Chef ● Bartending/Bartender ● Cooking and Related Culinary Arts, General ● Culinary Arts and Related Services, Other ● Culinary Arts/Chef Training ● Culinary Science/Culinology ● Food Preparation/Professional Cooking/Kitchen Assistant ● Restaurant, Culinary, and Catering Management/Manager ● Wine Steward/Sommelier 	<ul style="list-style-type: none"> ● Acting ● Costume Design ● Directing and Theatrical Production ● Drama and Dramatics/Theatre Arts, General ● Dramatic/Theatre Arts and Stagecraft, Other ● Musical Theatre ● Playwriting and Screenwriting ● Theatre/Theatre Arts Management 	<ul style="list-style-type: none"> ● Fine Art Other ● Fine/Stu ● Interme