

 **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**.

Activity 1.2.2 Student Worksheet

Table 1. Agriculture Pathways

Pathways	Overview	Careers	Education Requirements
Agribusiness System	Productions, processing marketing, distribution, financing and development of agriculture commodities	Farm and home	Bachelor's degree 4 years
Animals science	Meal,poultry,eggs,and dairy products. Workers study genetics, nutrition , reproductions growth, and care of domesticated farm animals,	Animals Trainer	less than a year
environment System	Involved in water and air pollution control, recycling ,waste disposal and public health issues	Environment scientist	Advance degree 4 years
Food product and processing	involved in bulk food production , the discovery of new food sources, the analysis of food content, and the development of ways to process	Food scientist	Bachelor's degree 4 years
Natural resources	Use, maintain, manage, and analyze natural resources,	forester	Bachelor's degree 4 years
Plant System	Related to growing food, feed,and fiber, crops, and the study of plants and their growth to help producers meet customers demand while conserving natural resources and maintaining the environment	soil and plant scientist	Bachelor's Degree 4 years
Power structural and technical system	Knowledge of engineering, hydraulics, pneumatics, electronics, power, structure sand controls , to the field of agriculture	agriculture engineer	Bachelor's degree 4 years

Table 2. Interest Profile Results

40	_____
30	_____
20	_____
10	_____
0	_____

R = Realistic	Total: 22
I = Investigative	Total: 5
A = Artistic	Total: 8
S = Social	Total: 15
E = Enterprising	Total: 19
C = Conventional	Total: 14

R I A S E C

Top Letter: R

Second Letter: E

Third Letter: S

Table 3. My Career Options

Barber	Boilermaker	Bailifis
They make \$21.66 and hour _Cut hair	They make \$35.56 an hour install gauges or controls	make 25.29 an hour warm individuals about rule violations or safety concerns,

Table 4. My College Major Interests

Boiler making/Boilermaker	Agribusiness and Management	carpenters
Boilers making /Boilermaker programs prepare students to fabricate and repair steam boiler components	Agricultural business and management programs prepare students to run and manage agricultural related bussiness	Carpenters programs prepare students to lay out,cut, fabricate,,erect, install, and repair, wooden, structures, and fixtures, using hand and power tools