**AGRICULTURAL SCIENCE**

**WHAT IS AGRICULTURAL SCIENCE?**

Agriculture science refers to the processes of cultivating desirable plants and breeding and raising livestock for commercial purposes. The practice of agriculture is usually referred to as farming. The scientists, laboratory technicians, geneticists, technologists and inventors are typically described as being involved in agriculture.

**Raising and Breeding of Livestock**

One of the tenets of agriculture science is the breeding and raising of livestock. This refers to animals that are raised for human consumption. For example, chickens, turkeys, farmed fish, cows for beef, calves for veal and pigs for pork are part of the livestock system. Animals that are hunted for food, such as wild turkeys or deer, are not included as a part of agriculture science.

**Production of Plants for Food**

Much of agriculture science is devoted to the production of plants as a source of human nutrition. This includes grasses, grains, fruits, roots, leaves, berries, plant seeds and vegetables. Some of the grasses and grains used for human food are wheat, oats and barley. Agricultural scientists may work on developing plants that can withstand dryer or wetter climate conditions. They may also work on changing the genes of plants to make them resistant to fungi, insects or worms. Other agriculture scientists work on increasing the productivity of plants, such as bushes that bear more or larger berries. Agriculture scientists might also focus on the flavor, color or texture of plants for human consumption, such as making genes for sweeter apples or cherries that are more tart.

**Production of Fiber**

According to Science daily, agriculture science also includes the production of fiber. This encompasses plant fibers, such as hemp, flax, linen and cotton. It also includes animal fibers, such as silk, mohair, wool, llama, cashmere, alpaca, yak and bison. Fibers that are gathered from the wild, rather than fibers grown purposefully, are not included in agricultural science. For example, qiviut is the fiber of the musk ox, and Inuit and Native Alaskan people follow the herds and collect these fibers in the springtime when the animals shed their winter coats.

**Production of Feed for Animals**

Agriculture science also includes the production of feed for animals. The feed is generally for the animals that are also being raised for food. For example, much of the corn produced in the United States is used in feed. Some other feed crops include hay, pasture grass and silage. Some food grown for people has byproducts that are turned into feed or animals. For example, the husks of pineapple and the roots and leaves of sugar beets are turned into animal feed. Brewer’s grains are also used for animal feed. Surplus food grown for human production may also be given to animals.

Agriculture science is what allows for modern food production. It also encompasses many occupations, from the geneticists who change the genome of plants to make them resistant to pests or diseases to the people who drive the tractors that plant the seeds into the ground and the field workers who harvest the fruits and vegetables by hand, many people are involved in agriculture. Understanding what is agriculture science is gives a person a new perspective on what it takes to get food from the field to the table.

**Personal requirements for an Agricultural Science**

* Able to analyze and solve problems
* Interested in science and the environment
* Able to make accurate observations
* Good oral and written communication skills
* Good organizational skills, with supervisory ability
* Able to work as part of a team
* Good reasoning and problem-solving skills

**Career opportunities**

* Agricultural science is a field that encompasses all scientific disciplines used in practicing and understanding agriculture. Working in an agricultural science job can be a good career choice. Regardless of your preferred job within agricultural science, learning the general requirements and benefits are can have a direct impact on your search and your future success. In this article, we discuss some of the most popular agricultural science jobs.

**Career paths in agricultural**

* Farmer
* Environmental Specialist
* Agricultural journalist
* Food Inspector
* Park Manager
* Wildlife Biologist
* Animal Scientist
* Veterinarian
* Agricultural Economist
* Fishery Biologist

**Expected Earnings As At 2022**

According to [salary.com](http://salary.com), The average Agricultural Scientist salary in the United States is $73,620 as of August 29, 2022, but the salary range typically falls between $58,917 and $91,128. Salary ranges can vary widely depending on many important factors, including education, certifications, additional skills, the number of years you have spent in your profession.