Fish hatchery workers know about the life cycles of fish. They take care of fish eggs to make sure the eggs will hatch. The small fish, called fry, hatch from eggs kept in large tanks. Workers keep the fry safe so big fish and birds will not eat them. They keep the water in the tanks clean and at the right temperature for the fry to grow. The workers also feed the fish. At a certain stage in the life cycle, they release the fish into a stream, river, or pond, where they grow into adult fish.

Fish hatchery workers need to know the life cycles of many kinds of fish. They might raise salmon, bass, sturgeon, trout, and many other kinds of fish. Every kind of fish has a slightly different life cycle. Fish hatcheries raise fish that are in danger of dying out and fish that people catch and eat.
A dog breeder raises purebred dogs, shows them at dog shows, and sells them. People who buy purebred dogs, such as Chihuahuas or German shepherds, get papers showing that a dog’s parents were of the same breed.

Dog breeders need to understand the dog’s life cycle. They know when to breed a dog. When the female dog has her puppies, breeders know how to make sure both she and her puppies stay healthy.

Breeders try to produce dogs that fit the breed’s standards.

Breeders care for puppies during their first weeks of life.

Breeders are careful when they choose the dogs that they breed. They want the puppies to be healthy and to have certain traits. Dog breeders need to know about dog nutrition and disease. Breeders provide dogs with a clean, healthy place to live. They do not allow someone to buy a puppy until it is old enough to leave its parents. Most of all, they love dogs.
Career Files teach about important jobs in science and how science is used in other jobs. Careers with the STEM symbol focus on Science, Technology, Engineering, or Math.

Seed farmers supply thousands of other farmers with seeds. Seeds are the first stage of most plant life cycles. Some farmers grow plants just for their seeds. Seeds are then sold to other farmers.

Seed farmers make sure they produce seeds that will grow into plants with the traits that crop farmers want. For example, some seed farmers grow many kinds of tomato plants to make seeds that will grow into different kinds of tomatoes. One makes tiny cherry tomatoes. Another makes large “beefsteak” tomatoes. Tomato farmers want to buy the seeds they need for growing a specific kind of tomato. In addition to knowing about growing plants, seed farmers also need to know about breeding plants. This is how they get seeds that will grow into plants that other farmers want.