

Unconventional Careers

What Is Food Technology?

Food technology is similar to food science. Often, colleges/ universities combine food science and food technology into one degree program. Food Science encompasses Engineering, the Physical Sciences and Biology to examine food, its deterioration and the processing methods used. Food technology is the study of food industry issues and research and solutions to these issues. You'll learn how to apply solutions to properly create and preserve food.

Food Technologist

Food technologists study food sources and find innovative ways to create nutritious processed food. They are also responsible for making sure the food is safe and accurately labeled. They do these tasks by using various sciences, such as chemistry, to study and keep note of the nutritional value of foods. In addition, they are also responsible for researching better ways to preserve and package foods for distribution and consumption.

They ensure food products are produced safely, legally and are of the claimed quality, ensuring that they are abiding by a constantly updated, strict regulatory framework. They may also work on existing or newly discovered ingredients and technologies to invent new recipes and concepts, as well as modifying foods to create, for example, fat-free products and ready meals. They often work closely with the product development teams to help deliver factory-ready recipes based on the development kitchen samples.

The following chart gives an overview of this job.

Degree Required	Bachelor's
Education Field of Study	Food science and technology
Key Responsibilities	Food research and development, quality control, market research, food safety

Job Description of a Food Technologists

A food technologist or food scientist:

- Research and develop foods that are safer and healthier for consumption.
- Create the different kinds of food products that appear on the shelves for consumers.
- Work in all aspects of the food industry and with all different kinds of food, including fresh foods and packaged foods.
- Can enter a supervisory position, managing production and quality control.
- Work as a food scientist developing new foods, flavors and colors.
- May design processes for food production in large amounts while maintaining texture and flavor.
- Survey consumers or look into markets to discover trends or new foods.
- Ensure the safety and hygiene of food production.
- May work as charge of tasting finished products to guarantee consistency.

Study Options to become a Food Scientist

Food technology programs award Bachelor's, Master's and Doctorate degrees.

Principles of management, science and marketing are blended into one field of study

that focuses on food values. A food technologist studies food preservation, chemistry, nutrition, food processes, fermentation and flavor chemistry. In addition he studies, different forms of packaging that will preserve food and improve food quality, state and federal regulations regarding food and packaging. Food communication courses teach how to promote new products through media outlets, while food distribution courses cover preservation during transportation and distribution to stores.

Scope of a Food Technologist in Pakistan

The scope of food science and technology in Pakistan is on the rise, and it is vast. This field is so diverse, and it is one of the uppermost paying fields in Pakistan. With the passage of time, there has been an increase in the demand for food scientists in the Pakistani food industries, departments, and hotels. So, if an individual is looking to pursue this degree, it does hold a bright future.

Best Universities for BS Food Science and Technology

Multiple institutes in Pakistan offer a BS in food science and technology. But the top ones are:

- University of Agriculture, Faisalabad
 - COMSATS Institute of Information and Technology
 - Bahauddin Zakariya University, Multan
 - KPK Agricultural University, Peshawar
 - The University of Faisalabad
 - Karachi University, Karachi
 - University of Central Punjab, Lahore
 - University of Management and Technology, Lahore
 - Hamdard University Campus, Islamabad
 - Ghazi University, D.G. Khan
- And many more