FREE

My Science Club

EXPLORING JOBS AND CAREERS IN BIOLOGICAL SCIENCES

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D IS FOR DENDROCHRONOLOGIST

As trees grow they add a ring to their trunk each year. Counting the rings gives an exact age for the tree. The rings also contain information about the health of the tree, a history of past weather, local climate and environmental changes.

Dendrologists study the width, patterns, and marks in each ring, to build up a picture of the local environment and climate over hundreds of years.

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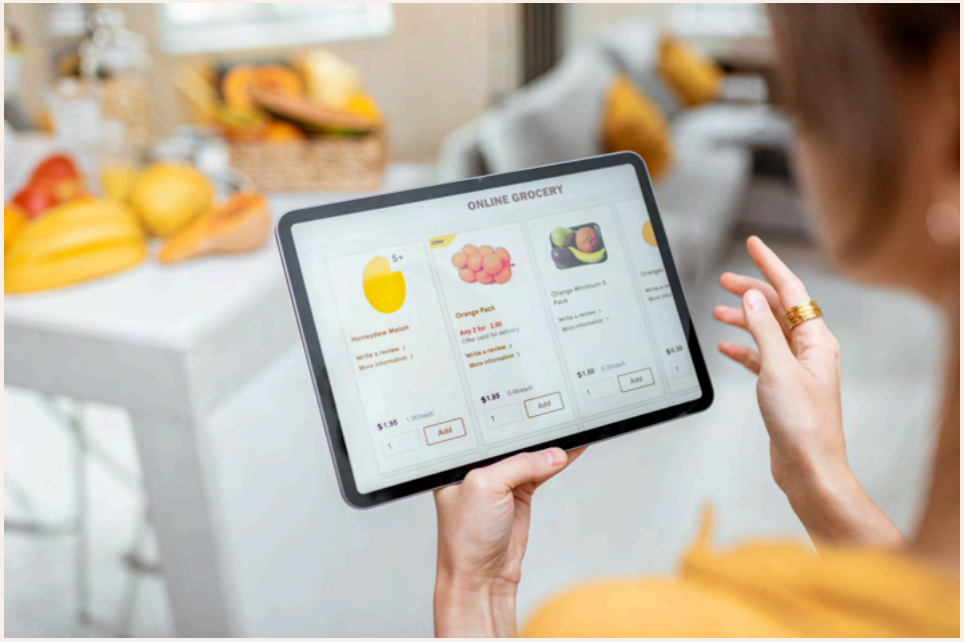
F IS FOR FOOD TECHNOLOGIST



Food technologists use chemistry, microbiology, and engineering to develop, test, and improve food and drink products.

Some are laboratory-based, ensuring food is safe and testing it's nutritional value. Other food technologists work in industry managing manufacturing the processes that get food from factory lines to supermarket shelves.

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I IS FOR ICHTHYOLOGIST

An ichthyologist is a marine biologist who specialises in the study of fish. They explore oceans, rivers, and lakes to discover new species, track migrations, and analyse underwater ecosystems.

By studying fish behaviour, genetics, and health, they help protect endangered species, preserve coral reefs, and maintain sustainable water environments.

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J IS FOR JUNIOR RESEARCH FELLOW

A junior research fellow is an early-career scientist working in a university laboratory or research institute. They design experiments, use high-tech equipment like powerful microscopes, and analyse complex biological data.

This hands-on role is the start of a career. It often leads to becoming a university researcher or professor, a lead scientist in a biotech company, or a project director running research projects.

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K IS FOR KINESIOLOGIST

A kinesiologist is a movement scientist who studies how the human body moves, flexes, and performs. They work in sports clinics, hospitals, universities, and rehabilitation centres.

By analysing muscles, bones, and biomechanics, they design personalised exercise programs to help injured people recover, teach athletes how to run faster without hurting themselves, and help everyday people stay fit, mobile, and pain-free.

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L IS FOR LIMNOLOGIST

Limnologists are environmental scientists who study inland water systems, like lakes, rivers, ponds, and wetlands. They work outdoors collecting water samples, measuring pollution, and tracking aquatic wildlife, as well as in laboratories analysing data.

By studying how chemical, physical, and biological factors interact in freshwater, they help protect clean drinking supplies and keep aquatic ecosystems healthy for fish and plants.

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O IS FOR ORNITHOLOGIST

Ornithologists study birds and all aspects of their lives. They investigate the behaviour of different bird species, their mating rituals and their migration patterns.

They explore how to protect birds in the wild, studying how changes in habitat and climate affect them. Most of their work is done out in the wild, observing and recording birds' movements and interactions.

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Q IS FOR QUANTUM BIOLOGIST

Quantum science studies the rules of tiny atoms and subatomic particles. At this very small scale, energy and matter act in strange ways that normal physics cannot explain.

A quantum biologist studies how these subatomic quantum particles affect living cells. They look at how nature uses these barely understood physics rules for things like plant energy, bird navigation and virology.

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X IS FOR XENOBIOLOGIST

Xenobiology is the study of living things that are not naturally found on Earth. It is a branch of biology that builds new biological systems using different genetic codes or chemical structures.

A xenobiologist is a scientist who studies xenobiology, they explore the chemistry of living things and create unique genetic codes in labs to figure out what living things might look like on distant planets.

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Y IS FOR YIELD PHYSIOLOGIST

A yield physiologist is a plant scientist who studies how to improve the yield of certain key food crops such as rice and wheat.

They investigate how changing environmental factors affect the productivity and harvestable output of crops. They research biological processes like photosynthesis to help breed climate-resilient, high-yielding crop varieties.

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Z IS FOR ZOOARCHAEOLOGIST

A zooarchaeologist studies ancient animal remains, such as bones, teeth, and shells found at old human digging sites, working alongside archaeologists.

They learn how people and animals lived together, what people ate, and how the natural world changed long ago. They study how ancient humans hunted, prepared their food and used animals bones to make tools.