

# THE WORLD OF NANOTECHNOLOGISTS

Nanotechnologists are scientists who study, design, and build things on the **nanoscale**, using **atoms** to make things work in new and special ways.

*Nanotechnologist  
(nah-noh-TECK-noh-luh-jist)*



*Nanotechnologists' work is done in the lab. They use clever machinery like super strong **microscopes** and **advanced technology** to study things on the nanoscale. They also often work closely with engineers to design and build nano-sized technology.*

# WHAT DO NANOTECHNOLOGISTS DO?

A nanotechnologist's work is very important because it helps us learn how even the world's smallest things can make a big impact on our lives!

## LAB WORK

Most nanotechnologists work in a lab, studying materials under strong **microscopes**, planning and carrying out experiments, and looking at data to figure out how different things work on the nanoscale.

They also work alongside engineers, designing exciting new materials or products to help tackle big problems on the nanoscale.



## FIELDWORK

While most nanotechnologists work in the lab, some take part in fieldwork when it's necessary to their project.

Nanotechnologists might meet with companies to discuss how nanotechnology could help them. They also may visit factories to check their products are being created properly or visit sites to check their products are working in real-life settings.

## WHO DO NANOTECHNOLOGISTS WORK FOR?

Many nanotechnologists work for universities, carrying out research and teaching students. Others work for research institutions run by governments or private companies. While some nanotechnologists focus their work on electronics, others work within medicine, energy, or space exploration!

# FAMOUS DISCOVERIES

Nanotechnologists have made so many amazing discoveries that have changed our understanding of the nanoscale. Here's just a few of the biggest and best discoveries!



## WATERPROOF CLOTHING

Scientists worked out that by adding nanoparticles to fabrics, they could make them waterproof. So, instead of soaking in, the water droplets simply roll off! Some of us now use these fabrics every day!



## POWERFUL WINGS

Nature is full of amazing nanotechnology. The wandering percher dragonfly has tiny spikes on its wings that stop bacteria from growing! This has inspired scientists to create materials with similar **properties**.



## SEEING INTO THE FUTURE

A company called Innovega are using nanotechnology to create contact lenses with built in virtual reality! These would let people view games, movies, and simulated environments in a completely new way.



**Nanotechnologists are making discoveries all the time; who knows what they might discover next!**

# FAMOUS NANOTECHNOLOGISTS

There have been so many clever scientists over the years who have contributed to the field of nanotechnology. Here's just a few of the most famous.

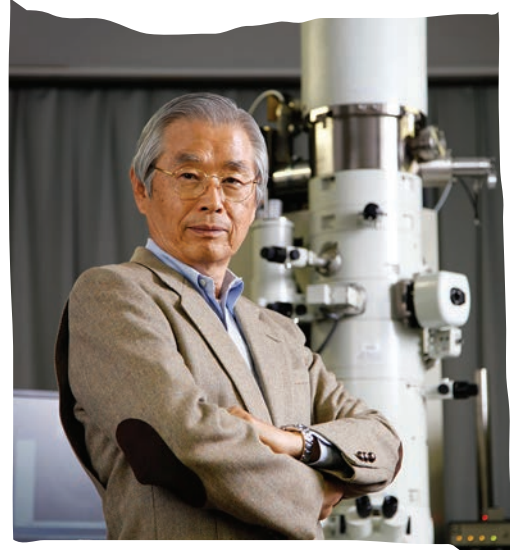


## RICHARD FEYNMAN

An American physicist, Richard was the scientist who first introduced the idea of nanotechnology. It's thanks to him that this exciting, world-changing field of science exists!

## SUMIO IIJIMA

Sumio discovered something really important: carbon nanotubes. These materials are extremely strong yet light in weight and conduct electricity and heat better than most other materials. They're important for tiny electronics, batteries, and medical tools.



## JENNIFER DIONNE

Jennifer is a professor of materials science and engineering, and a pioneer of nanophotonics – the study of how light interacts with materials at the nanoscale. She has made lots of incredible discoveries, including how to detect germs more easily!

These are just a few of the many scientists who have made a huge difference to the field of nanotechnology.