

## Careers in nuclear are open to everyone

You don't need a lab coat or a calculator to work in nuclear science and technology. In nuclear, you can find rewarding, meaningful work no matter your background or interests. There are jobs for people with certifications and high school diplomas as well as college degrees of all levels, from associate to Ph.D.



### Reactor Operator

Recent high school graduates receive on-the-job training to become certified reactor operators.



### Technicians and Tradespersons

Lab technicians train for one to two years to operate sophisticated equipment used in experimental studies.



### Engineers

Nuclear engineers must earn, at minimum, a bachelor's degree. They use physics, engineering, and math skills to design and develop new equipment, fuels, and processes.

## Careers in nuclear are rewarding personally and for the world

Fusion and fission have the ability to provide abundant energy without emitting carbon dioxide and other air pollutants. Technicians, tradespersons, engineers, and researchers keep the power on in our communities as well as some other unexpected places, ensuring our energy security and a brighter future.



### Small Modular Reactors

Plant operating supervisors and other personnel learn to control the plant using simulators designed for small modular reactors (SMRs). Unlike large-scale reactors built on-site, SMRs are built in factories and shipped where they are needed.



### The Future of Fusion

Fusion promises nearly limitless energy with little to no waste. Dozens of people and thousands of parts are required to conduct fusion experiments. Targets for fusion experiments are often manufactured by robots designed and operated by robotics engineers.



### Powering Outer Space Exploration

Nuclear energy powers most of the rovers and probes we use to explore our solar system, making it possible to provide reliable energy where solar energy isn't possible.

## Nuclear means energy and much more

Nuclear energy is one of the cleanest, greenest energy options available to power our world. However, there are nuclear careers in just about any field that interests you, whether you dream of protecting our nation, treating cancer and other diseases, or even traveling into deep space.



### National Security

Nuclear reactors power our Navy submarines and aircraft carriers. Serving in the Nuclear Navy is a proven path to a civilian career in nuclear energy. Additionally, the military will fund tuition at colleges and universities for service members.



### Aerospace

Electrical and software engineers develop next generation, high-technology systems for deep space exploration and computing.



### Health Care

Nuclear medicine helps reveal and treat numerous diseases, often at very early stages. Nuclear technicians perform many tasks, including preparing radioactive drugs, administering them to patients, and performing procedures like imaging with a PET scanner.

Find your pathway to a career in nuclear

[ans.org/pathways](https://ans.org/pathways)

# Find your pathway to a career in nuclear

Energy	Education	Pay Range
<b>Engineer:</b> nuclear, mechanical, civil, electrical, environmental, software	◆◆◆	\$\$\$
<b>Trades:</b> electrician, carpenter, pipefitter, metal worker	◆	\$
<b>Technician:</b> engineering, operations, instrument and electrical, control, IT	◆◆	\$\$
<b>Reactor Operator</b>	◆	\$\$
<b>Nuclear Operations Technician</b>	◆◆	\$\$
<b>Radiation Safety Officer</b>	◆◆◆	\$\$\$
<b>Firefighters</b>	◆	\$
<b>IT Technical Support Specialist</b>	◆◆	\$
<b>Environmental Specialist</b>	◆◆◆	\$\$
<b>Decommissioning Operative</b>	◆	\$

Industrial Applications	Education	Pay Range
<b>Trades:</b> electrician, carpenter, pipefitter, metal worker	◆	\$
<b>Technician:</b> operations, instrument and electrical, control, IT	◆◆	\$\$
<b>Radiation Protection Specialists</b>	◆◆◆	\$\$
<b>Radiologic Evaluator</b>	◆◆	\$\$
<b>Radiographer</b>	◆◆	\$\$
<b>Industrial Radiographer Assistant</b>	◆	\$
<b>Radiochemist</b>	◆◆◆	\$\$\$
<b>Engineer:</b> nuclear, industrial, construction, mechanical, computer	◆◆◆	\$\$\$
<b>Industrial Irradiator Operator</b>	◆	\$

National Security	Education	Pay Range
<b>Machinists Mate Nuclear</b>	◆	\$
<b>Naval Reactors Engineer</b>	◆◆◆	\$\$\$
<b>Nuclear Power School Instructor</b>	◆◆◆	\$\$\$
<b>Electronics Technician Nuclear</b>	◆	\$
<b>Nuclear Surface Warfare Officer</b>	◆◆◆	\$\$\$
<b>Submarine Officer</b>	◆◆◆	\$\$\$
<b>Electricians Mate Nuclear</b>	◆	\$
<b>Weapons Specialist</b>	◆◆◆	\$
<b>Physicist/Nuclear Engineer</b>	◆◆◆	\$\$\$
<b>Nuclear and Missile Operations Officer</b>	◆◆◆	\$\$\$
<b>Cybersecurity Specialist</b>	◆◆◆	\$\$\$

Health Care	Education	Pay Range
<b>Radiation Oncologist</b>	◆◆◆◆	\$\$\$\$
<b>Nuclear Medicine Technologist</b>	◆◆	\$\$\$
<b>Radiologic Technologist</b>	◆◆	\$\$
<b>Nuclear Pharmacist</b>	◆◆◆◆	\$\$\$
<b>Nuclear Pharmacy Technician</b>	◆	\$
<b>Health Physicist</b>	◆◆◆	\$\$\$
<b>Radiation Safety Officer</b>	◆◆◆	\$\$\$
<b>Medical Physicist</b>	◆◆◆	\$\$\$
<b>Pharma Manufacturing Technician</b>	◆	\$
<b>Cyclotron Engineer</b>	◆◆◆	\$\$\$

Aerospace	Education	Pay Range
<b>Aerospace Engineer</b>	◆◆◆	\$\$\$
<b>Specialty Engineer:</b> Flight, Nuclear Propulsion, Radiation Effects	◆◆◆	\$\$\$
<b>Other Engineer:</b> nuclear, civil, mechanical, electrical	◆◆◆	\$\$\$
<b>Engineer Technician</b>	◆◆	\$
<b>Experimental Physicist</b>	◆◆◆◆	\$\$
<b>Airframe Mechanic</b>	◆	\$
<b>Meteorologist</b>	◆◆◆	\$\$
<b>Drone Technician</b>	◆	\$
<b>Assembly Technician</b>	◆	\$

Research & Development	Education	Pay Range
<b>Technician:</b> operations, instrument and electrical, control, IT	◆◆	\$\$
<b>Researcher:</b> physics, computational mathematics, chemistry, biomedical	◆◆◆	\$\$\$
<b>Research Technologist</b>	◆◆	\$\$
<b>Engineer:</b> nuclear, mechanical, chemical, environmental; software	◆◆◆	\$\$\$
<b>Engineering Technologist</b>	◆◆	\$\$
<b>Radiation Safety Specialist</b>	◆◆◆	\$\$

- ◆◆◆◆ PhD \$\$\$\$ \$125-300K+
- ◆◆◆ Bachelor's/Master's \$\$\$ \$70K-120K
- ◆◆ Associate/Bachelor's \$\$ \$50K-90K
- ◆ Vocational/Training \$ \$35K-70K



Your career is more than just a job title—it's an opportunity to do fulfilling work that has a positive impact on the world. There are many jobs in clean energy production in the nuclear industry, but there are other fields and disciplines you might not think of when you think about nuclear science and technology.