

# Get into Energy

# GET INTO WIND



More than six million Americans work in energy careers that power our country and our lives. They transform things like natural gas, coal, uranium, water, sun and wind into energy. This essential work requires a multitude of competencies and expertise from a skilled, diverse workforce.

## ENERGY PROFESSIONALS WORK IN:

- Skilled trade positions
- Engineering and technical roles
- Business operations

Wind energy is the leading source of renewable energy generation in the U.S. and an effective climate solution because no greenhouse gasses are emitted by a wind turbine when generating electricity.<sup>1</sup>

## WHAT IS WIND ENERGY?

- Wind offers a renewable energy source because it will never run out no matter how much we draw from it. The wind has been used for centuries to generate energy. Early examples include windmills used to grind grain and ships with sails that enabled trade and exploration across seas.
- Wind turbines, which can be on land or offshore, harness the power of the wind and turn it into electricity. Wind turbines have three essential parts; a rotor, blades, and a generator. Blowing wind causes the blades to spin, which in turn rotates the generator. The more powerful the gust of wind, the more energy the turbine will generate.<sup>2</sup>

<sup>1</sup><https://cleanpower.org/resources/clean-power-climate/#download>

<sup>2</sup><https://www.energy.gov/eere/wind/inside-wind-turbine>

## WHAT ARE THE BENEFITS OF CAREERS IN WIND ENERGY?

- Wind energy is the fastest-growing renewable energy resource in the world
- Offers many varied careers with opportunities for advancement
- Wind turbines help protect our environment because they produce no greenhouse gas emissions, no water emissions, and no solid waste byproducts while turning
- Wind farms can boost economic benefits for local communities

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## WHAT KINDS OF JOBS EXIST IN WIND ENERGY?

SKILLED TRADES	ENGINEERING & TECHNICAL OPERATIONS	BUSINESS & PROFESSIONAL POSITIONS
Cement Masons	Wind Technicians	Lawyers
Electricians	Civil Engineers	Accountants
Equipment Operators	Power Systems/ Transmission Engineers	Finance Professionals
Construction Workers	Environmental Scientists	Regulatory Experts
Construction Managers	Mechanical Engineers	Land Acquisition Specialists
Site/Plant Managers	Industrial Engineers	Researchers
Meteorological Technicians	Electrical Engineers	Marketers
	Aerospace Engineers	Project Managers

## HOW DO YOU GET STARTED IN A WIND CAREER?

There are many paths to a rewarding career in wind energy. Higher education may be a prerequisite for many engineering or business-professional roles. On the other hand, short-term, on-the-job training or even apprenticeships are avenues for entry-level positions in skilled trade or construction. Acquiring additional certification, attending a technical school program, or achieving a degree is an excellent way to advance your career.



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