

# Wind Turbine Technicians

SOC: 49-9081 • Career Profile Report

## ■ Key Facts

<b>\$62,580</b> Median Salary	<b>13,600</b> Employment	<b>+50.0%</b> Growth Rate
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## ■ Requirements & Salary Range

Education: Postsecondary

## ■ Automation Risk Assessment

**Low Risk** - 25.0% probability of being automated in the next 10-20 years.  
This job is relatively safe from automation due to its creative, social, or complex problem-solving requirements.

## ■ Work-Life Balance

**4.8/10** - Fair work-life balance

## ■ Personality Fit (RIASEC)

Higher scores indicate better personality fit for this career type.

Realistic	8.8/10	Investigative	7.4/10
Artistic	4.4/10	Social	5.6/10
Enterprising	4.6/10	Conventional	6.4/10

## ■ Top Skills Required

Ability to work at heights, Communication skills, Detail oriented, Mechanical skills, Physical stamina, Physical strength, Problem-solving skills

### ✓ Strengths

- High Demand
- Flexible Work
- Continuous Learning

### ■ Challenges

- Burnout Risk
- Rapid Technological Change

## ■ What They Do

Wind Turbine Technicians typically perform the following tasks:

- Troubleshoot or repair mechanical, hydraulic, or electrical malfunctions related to variable pitch systems, variable speed control systems, converter systems, or related components.
- Perform routine maintenance on wind turbine equipment, underground transmission systems, wind fields substations, or fiber optic sensing and control systems.
- Diagnose problems involving wind turbine generators or control systems.
- Test electrical components of wind systems with devices, such as voltage testers, multimeters, oscilloscopes, infrared testers, or fiber optic equipment.
- Start or restart wind turbine generator systems to ensure proper operations.
- Climb wind turbine towers to inspect, maintain, or repair equipment.
- Maintain tool and spare parts inventories required for repair, installation, or replacement services.
- Test structures, controls, or mechanical, hydraulic, or electrical systems, according to test plans or in coordination with engineers.
- Train end-users, distributors, installers, or other technicians in wind commissioning, testing, or other technical procedures.
- Collect turbine data for testing or research and analysis.
- Inspect or repair fiberglass turbine blades.
- Assist in assembly of individual wind generators or construction of wind farms.

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Source: <https://www.bls.gov/ooh/installation-maintenance-and-repair/wind-turbine-technicians.htm>