

## ASSEMBLER / FABRICATOR



Assemblers and fabricators are responsible for fabricating and assembling wind turbine components. They use schematics, follow blueprints, conduct quality assurance, and use a variety of tools to create and align parts that meet quality standards.



### JOB INFO

**Education/Training:** High school diploma or equivalent, moderate-term on-the-job training. Apprenticeship/postsecondary training sometimes beneficial

**Experience:** 1 year of experience desired in the assembly of small, intricate parts and assemblies and in performing expert soldering

**Project Phases:** Manufacturing & Assembly

**Skills:** Manual dexterity, attention to detail, quality control, safety awareness

## COMMERCIAL DIVER



Commercial divers are trained to work underwater to inspect, repair, remove, or install equipment and structures related to offshore wind project installation and maintenance. They can help implement subsea cable protection and scour protection around underwater facilities. Commercial divers can also specialize in underwater welding with training.



### JOB INFO

**Education/Training:** Associate degree or vocational training, Commercial Dive Certification, optional specialist training (e.g. Underwater welding)

**Experience:** Commercial diving experience preferred

**Project Phases:** Construction & Installation, Operations & Maintenance

**Skills:** Swimming and diving, physical fitness, mechanical aptitude, safety awareness

## COMMUNITY ENGAGEMENT PROFESSIONAL



This role requires one to conduct stakeholder outreach and engagement with local communities and organizations to ensure effective communication and collaboration throughout the offshore wind project's life cycle. They also support a project's public positioning across a range of policy issues and regulatory bodies.



### JOB INFO

**Education/Training:** Bachelor's degree such as Public Policy, Political Science, or Communications. Master's Degree in Public Administration or Public Relations may be helpful

**Experience:** Experience in community organizing, public advocacy, or stakeholder outreach beneficial

**Project Phases:** Development

**Skills:** Community outreach, stakeholder engagement, strategic communications, coalition building, policy analysis

## CONSTRUCTION WORKER



Construction workers in the wind industry are responsible for building local access roads, preparing the site, and laying the foundations that support wind turbines. They operate heavy equipment and work to put the wind turbine tower, nacelle, and blade segments together.



### JOB INFO

**Education/Training:** High school diploma or equivalent. For certain trades, an apprenticeship/post-secondary training or certification is preferred

**Experience:** None required. Most construction workers learn their trade through short-term on-the-job training

**Project Phases:** Construction and Installation

**Skills:** Mechanical skills, physical strength, coordination and dexterity, safety awareness

## CRANE OPERATOR



A Crane Operator safely operates heavy-duty cranes that are used for the installation of wind turbines. Their key responsibilities include lifting and positioning large components such as tower sections, rotors, nacelles, and blades at great heights. Crane operators may work in the port terminal (portside) or the maritime construction crew (offshore).



### JOB INFO

**Education/Training:** High school diploma/GED. Licensing, training, and certification from the National Commission for the Certification of Crane Operators (NCCCO) required

**Experience:** Experience in lifting in offshore conditions

**Project Phases:** Construction & Installation, Operations & Maintenance

**Skills:** Machine operation, attention to detail, spatial awareness, safety consciousness



## ELECTRICIAN



Offshore wind electricians work alongside engineers and technicians to plan, assemble, and install electrical wiring and equipment, connect wires and cables to components, test electrical systems for safety, and inspect equipment to ensure compliance with codes.



### JOB INFO

**Education/Training:** High school diploma/equivalent, apprenticeship/postsecondary training

**Experience:** 1 Year of Experience (not including apprenticeship requirements)

**Project Phases:** Development, Construction & Installation, Operations & Maintenance

**Skills:** Advanced technical knowledge, understanding of electrical circuits, power systems, and control systems, computer-aided design software, analytical skills



## ELECTRICAL ENGINEER



Electrical engineers specialize in the design, analysis, and optimization of electrical systems to ensure standards are met in manufacturing, installation, and maintenance. They optimize electrical power systems for power generation, transmission, and distribution in offshore wind energy.



### JOB INFO

**Education/Training:** Bachelor's Degree in Electrical Engineering

**Experience:** 1 year of experience desired

**Project Phases:** Development, Construction & Installation, Operations & Maintenance

**Skills:** Advanced technical knowledge, understanding of electrical circuits, power systems, and control systems, computer-aided design software, analytical skills

HIGH CAREER GROWTH OPPORTUNITY!



## ENVIRONMENTAL SCIENTIST



An environmental scientist working in offshore wind conducts important tasks related to environmental impact assessments, regulation compliance, and permitting. Their role can include monitoring and evaluating potential ecological impacts, collaborating with stakeholders, and public outreach.



### JOB INFO

**Education/Training:** Bachelor's degree, such as in Environmental Science/Biology, Marine Sciences, or Ecology

**Experience:** Work experience as an environmental scientist desired

**Project Phases:** Development, Construction & Installation, Operations & Maintenance

**Skills:** Data analysis and interpretation, understanding environmental regulations and policies, risk assessment and management, ecological and conservation knowledge

HIGH CAREER GROWTH OPPORTUNITY!



## FINANCIAL ANALYST



Financial Analysts conduct detailed market research and analysis to identify trends and opportunities in the offshore wind energy sector. They develop and maintain complex financial models to evaluate project economics and investment returns, analyze potential projects, manage large datasets, assess risks, and provide strategic recommendations to the offshore project.



### JOB INFO

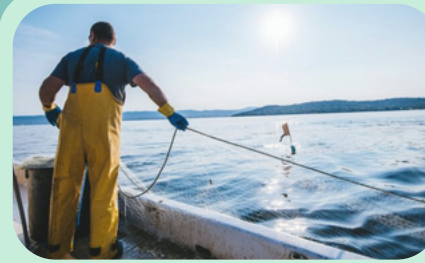
**Education/Training:** Bachelor's degree such as Finance, Economics, Business Administration, Accounting, or Statistics. MBA may be beneficial

**Experience:** Experience in financial modeling preferred

**Project Phases:** Development

**Skills:** market analysis, financial modeling, project assessment, data management, risk analysis

## FISHERIES LIAISON



The Fisheries Liaison leads communications between the offshore wind industry and fishing community representatives to ensure effective collaboration. They lead efforts to include the fishing community in the project's offshore activities and help to support fisheries-related stakeholders throughout the project phases.



### JOB INFO

**Education/Training:** Bachelor's degree such as Marine Sciences or Oceanography, or demonstrated experience in marine resources and fisheries management

**Experience:** Experience in issues related to commercial and recreational fishing

**Project Phases:** Development, Construction & Installation, Operations & Maintenance

**Skills:** Stakeholder engagement, strategic communications, interpersonal skills, understanding of fishing regulations and research

## HEALTH & SAFETY OFFICER



Health and Safety Officers are professionals who may work onshore serving as managers and overseers of health and safety training and environmental compliance. Others can also work on offshore vessels or in portside construction sites to support and enforce safety protocols and procedures during construction, installation, operations, and maintenance.



### JOB INFO

**Education/Training:** Bachelor's degree such as Health, Safety, and Environment (HSE), engineering, or maritime studies. Safety certifications or trainings also required

**Experience:** Safety expertise required. Common backgrounds include project management, environmental specialists, and regulatory compliance officers

**Project Phases:** Development, Construction & Installation, Operations & Maintenance

**Skills:** Deep understanding of safety protocols and procedures, specific knowledge related to safety area (such as vessels/offshore safety or construction safety), vessel safety examples - knowledge of emergency procedures, evacuation plans, safe onboard practice, construction safety examples - working at heights, electrical safety, crane operations, use of machinery, and fall protection

## PROTECTED SPECIES OBSERVER



Protected Species Observers are professionally trained biological technicians who monitor protected species, conduct habitat assessments, and document field data to support the offshore wind industry's wildlife conservation efforts around the offshore lease and construction area.



### JOB INFO

**Education/Training:** Bachelor's Degree in one of the natural sciences, such as Conservation Biology, Marine Biology, or Ecology. Most at-sea observer and monitoring programs also require a 2-3 week training course before the job starts

**Experience:** Experience conducting field studies and surveys, especially on vessels, preferred

**Project Phases:** Development, Construction & Installation, Operations & Maintenance

**Skills:** Species identification, biological specimen data collection, proper protected species handling, knowledge of fishing and safety regulations, at-sea survival skills

GREAT FOR NEW GRADS!

## WELDER



Submerged Arc Welding and Underwater Welding are used in offshore wind projects. Submerged Arc Welding creates strong welds to join thick steel components, like wind tower sections, using an electric arc submerged under granular flux. Underwater Welding can address repair and maintenance needs for offshore wind structures.



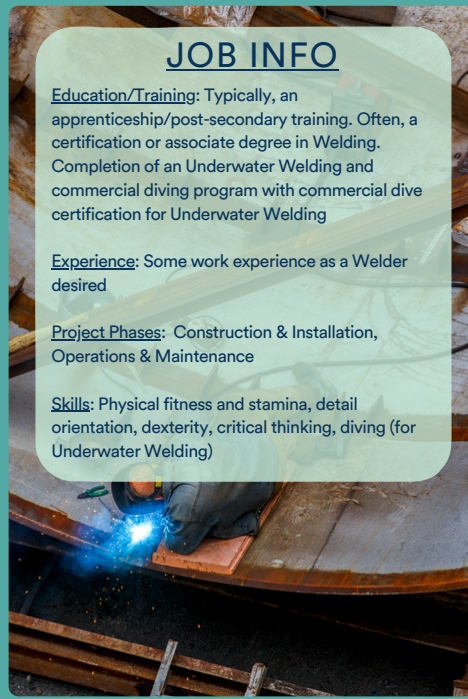
## JOB INFO

**Education/Training:** Typically, an apprenticeship/post-secondary training. Often, a certification or associate degree in Welding. Completion of an Underwater Welding and commercial diving program with commercial dive certification for Underwater Welding

**Experience:** Some work experience as a Welder desired

**Project Phases:** Construction & Installation, Operations & Maintenance

**Skills:** Physical fitness and stamina, detail orientation, dexterity, critical thinking, diving (for Underwater Welding)



## WIND TURBINE TECHNICIAN



Wind technicians install, commission, operate, inspect, test, and repair wind turbines. They can troubleshoot, diagnose, and fix any problem including mechanical and electrical issues that could cause the turbine to shut down unexpectedly or fail to operate properly.



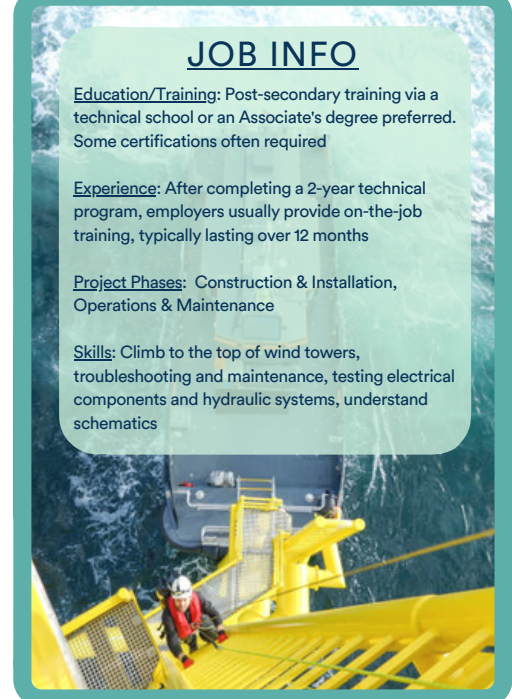
## JOB INFO

**Education/Training:** Post-secondary training via a technical school or an Associate's degree preferred. Some certifications often required

**Experience:** After completing a 2-year technical program, employers usually provide on-the-job training, typically lasting over 12 months

**Project Phases:** Construction & Installation, Operations & Maintenance

**Skills:** Climb to the top of wind towers, troubleshooting and maintenance, testing electrical components and hydraulic systems, understand schematics



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