

Marine energy offers a wide range of career paths. Here are a few examples to get you thinking – but, if you can't see one you like, look overleaf for some other ideas:

### Mechanical / Electrical Engineer

Engineers design, build, and maintain technology that generate power from the sea. They make sure these systems can handle tough ocean conditions.



#### Get started?

- A-levels in maths and physics or a relevant Extended Diploma for a degree
- GCSEs (A\* to C) and A-levels for an apprenticeship
- Seek internships in marine energy for practical experience

#### Is it for You?

If you enjoy math, science, IT, solving problems, and have attention to detail this could be your career!

#### Career Path

- Apprentice
- Technician
- Engineer
- Project Management
- Engineering Consultant



### Workboat Crew

Work on tugs, workboats, fast pilot boats, or crew transfer vessels, providing essential services in ports and waterways. You'll help plan and support the installation of marine energy devices.



#### Get started?

- Level 3 Workboat Crew Member Apprenticeship
- RYA Powerboat Level 2 & VHF Short Range Certificates
- STCW Basic Safety Training

#### Is it for You?

If you don't mind getting cold, wet, and salty, and have solid sea legs, this could be for you. It's a hands-on role requiring problem-solving and teamwork in tough conditions.

#### Career Path

- Deckhand
- Skipper
- Marine Operations Manager
- Offshore Construction Manager



### Marine Scientist

Marine scientists play a key role in projects by measuring and mapping the marine environment to guide engineering decisions and ensure devices don't harm their surroundings.



#### Get started?

- A-levels in science (maths and geography are helpful) or an Extended Diploma in Applied Science for a degree.
- A relevant degree for postgraduate study.
- Gain experience through internships and work placements.

#### Is it for You?

If you're skilled in IT, statistics, and presentations, and have a knack for problem-solving and observation, this could be your fit. Self-motivation, attention to detail, and a passion for your specialism are essential.

#### Career Path

- Undergraduate and Masters Degree
- Doctoral Degree
- Internships or Research Projects
- Field Data Collection
- Marine Consultancy



### Project Manager

Project managers oversee the scope, quality, budget, and timeline of a project, acting as the central link between all teams involved.



#### Get started?

- Enter from various backgrounds
- Gain formal project management qualifications
- Transition from another field

#### Is it for You?

If you're organised, goal-oriented, and a strong communicator with good IT, numeracy, and leadership skills, this role could be for you.

#### Career Path

- Project Officer
- Junior Project Manager
- Project Manager
- Senior Project Manager
- Head of Project Management
- Chief Operating Officer



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# An ocean of opportunity

## Your Guide to Careers in Marine Energy



Marine energy is a playground for new ideas and it's brimming with opportunities to make a real difference. Your innovative thinking could lead to breakthroughs that nobody's even dreamed of yet. Picture yourself laying the groundwork for tech that'll shape our future".

### Innovate and Inspire

Think marine energy is all about science and engineering? Think again! There is a whole spectrum of roles to fill. Beyond the techy stuff, you could be planning projects, wrangling robots underwater (yes, really!), chatting up a storm as a communications professional, crunching numbers in business development, studying sea life, or even piloting drones. If these jobs sound cool, flip over to find out even more options.

As marine energy develops a bigger range of skills will be needed. Fancy working outdoors on land or at sea? Or would you rather be in a lab crafting the next big invention? Maybe you see yourself jetting off to different countries? In marine energy, you can do all this and more.

### Career Opportunities

To make waves in marine energy, you'll need a solid foundation in STEM – that's Science, Technology, Engineering and Maths. These subjects are key because they help solve problems and push the industry forward. Your contribution could make a huge impact – from tackling climate change to creating new jobs.

### Skills for the Future

Marine energy harnesses the power of our planet's oceans to create clean, sustainable and affordable electricity. This can power homes, transport and industries. The industry is expanding quickly, powered by fresh ideas and innovation – this is where you come into the picture!

To find out more, visit our careers webpage by scanning the QR code or entering the URL: [www.pembrokeshirecoastalforum.org.uk/careers](http://www.pembrokeshirecoastalforum.org.uk/careers)

### Profile:

Lara Lawrie - Director of Environment and Consents OWC

I help developers understand environmental and social constraints associated with offshore wind and secure the permits required to construct and operate offshore wind farms.

I love the problem-solving aspect of my role, whether at project level or globally supporting the transition to net zero.

I have a BSc in Marine Geography and MSc in Marine Spatial Planning, and have worked in regulatory and consultancy roles, covering onshore and offshore renewables. Never underestimate the value of variety in your career!



### Technical

- Software Developers / IT
- Data Analyst
- GIS Technician
- Environmental Analyst
- Marine Scientist
- Marine Mammal Observer
- Consents Management

### Design

- Design & Development Engineer
- 3D Modelling
- CAD Designers
- Prototype Engineers

### Profile:

Laura Jackson - Assistant Coastal & Rivers Engineer, Pembrokeshire County Council

I loved maths and science in school but ended up following a career path in nursing. Following an unexpected career break, I realised I had an opportunity to retrain and work in an area I felt passionate about, The Sea. I have studied with the Open University for my Engineering Degree and can honestly say that I am now in a role that I love. I had never heard of coastal engineering but when I saw the job advertised, I was completing charity work with surfers against sewage which helped me get the job. I now get to spend my days outdoors, on the beach, helping protect our beautiful Pembrokeshire Coastline.



# Which careers are possible in Marine Energy?

### Construction & Fabrication

- Mechanical Engineer
- Electrical Engineer
- Environmental Engineer
- Geophysicists
- Welders & Fabricators
- Shipwrights
- Apprentices
- Painters

### Business Development & Commercial

- Project Managers
- Business Managers
- Financial Analyst
- Marketing & PR/Comms
- Funding Specialist
- Patent Adviser/Lawyer

### Profile:

Lee Watt - Project Manager at DP Energy

I ended up in my role primarily through my love of nature and the environment. I studied Coastal Zone Management in Pembrokeshire College, then did a Masters in Renewable Energy followed by a career developing both national and international renewable energy projects. I'm currently a Project Manager working in the Floating Offshore Wind industry!



### Operations & Maintenance

- Marine Operatives
- Marine Consultants
- Divers
- Health, Safety & Environment Managers
- Pilots
- Crane Operators
- Drone Operators
- Asset Engineers
- Work Boat Builders

### Project Services

- Finance
- Office Management
- HR
- Marketing & PR/Comms
- Administrators
- Personal Assistants

