

Hydrodynamic Engineer

- Innovative wave energy developer
- Permanent role based in Fremantle
- Work across a multi-disciplinary team

Carnegie Clean Energy Limited is a renewable energy technology company, focused on developing its world leading patented CETO wave energy technology. The global potential for marine renewable energy is enormous and Carnegie is well positioned to capitalise upon this. Carnegie is working to significantly improve the CETO design by utilising a low-cost, digital development pathway.

Carnegie is seeking a Hydrodynamic Engineer to join the technical team and work closely with other engineers across a broad range of disciplines in executing the technology development plan. Reporting to Carnegie's Chief Technology Officer, this position will be responsible for hydrodynamic development and analysis of our CETO wave energy technology.

The Position:

- Perform hydrodynamic studies of wave energy devices including performance analysis, optimisation, load case definitions and development of new ideas
- Develop production techniques utilising new and existing tools, including linear and Navier-Stokes computational fluid dynamics simulations
- Author and review detailed technical reports relating to wave energy theory, design, tank testing, installation, commissioning and operation of equipment and components
- Collaborate closely with the technical team to ensure appropriate development of load and motion cases
- Collaborate closely with the analysis team to produce suitable data for the machine learning development
- Undertake design, analysis and development activities of CETO and other components, as required

The Candidate will possess the following:

- A positive and collaborative approach to problem solving in a team environment
- Bachelor's degree or equivalent in Mechanical / Civil Engineering
- 5+ years' experience in hydrodynamics or a similar role
- Computational Fluid Dynamics expertise

- OpenFOAM or other RANSE CFD code operation

The following would be well regarded:

- PhD in a related field
- Capability in advanced analytical approaches (i.e. machine learning)
- Experience in marine-energy applications (wave / tidal)
- Tank testing or other physical model testing experience

The Company offers:

- The chance to work in a rewarding company and be part of developing and demonstrating a world class and world first renewable energy technology
- A competitive remuneration package will be offered in line with relevant experience and skills

Applications, including covering letter, CV and answers to the application questions below, should be forwarded to careers@carnegiece.com in PDF format with “Hydrodynamic Engineer” in the subject title. Only shortlisted applicants will be contacted. Confidentiality is assured.

Application Questions

Are you eligible to work in Australia?

How many years experience do you have in a similar role?

What is your expected salary?

Do you have a relevant degree or tertiary qualification?

Describe your ideal work environment in 3 words.