

OrcaFlex: Software Skills for FLOW

Skills development training course – one-day workshop

Join us for a highly engaging training day developing new user skills in *OrcaFlex*, the world's leading package for the dynamic analysis of offshore marine systems, renowned for its breadth of technical capability and user friendliness.

If you are interested in exploring greener careers, or already working in high growth potential sectors such as renewable energy across Cornwall and the Isles of Scilly and would like to develop new software skills using *OrcaFlex*, this one-day workshop is for you!

Supported by academic experts within the University of Exeter Engineering School, this one-day course will help you develop the skills and knowledge needed for sustainable high value green skills careers in the off shore wind sector. It is also a valuable networking opportunity to make new connections across the sector in Cornwall and the Isles of Scilly and will signpost you towards further skills development opportunities and support for you & your business or career progression.

Submit your expression of interest to attend this event here.

Please register your expression of interest by submitting the form linked above. Places on this course are limited and offered to eligible Cornish residents on a first come basis. Once your form is submitted we will assess your information and confirm if a fully funded place will be offered to you.

Event Overview

Date & Time: Tuesday 4th June 2024 09:30-16:30

Venue: Penryn University Campus, Penryn, Cornwall, TR10 9FE

Please note: This is an in-person event and is not open to online remote attendance.

Agenda

- 09:30 **Arrival, Registration & Networking**
- 10:00 **Welcome** & Introductions (Mary Hesling)
- 10:15 **Session 1: Overview of floating offshore wind Orcaflex Model Chain** (A.C. Pillai & P.R. Thies)
- 11:00 *Break*
- 11:30 **Session 2: Building a model of the IEA 15 MW Turbine Part 1: Chain Moorings** (A.C. Pillai)
- 12:10 **Summary / Q&A / Group discussion**
- 12.30 *Networking Lunch*
- 13.30 **Session 3: Building a model of the IEA 15 MW Turbine Part 2: Synthetic Moorings** (A.C. Pillai)
- 14.45 *Break*
- 15.15 **Session 4: Finish building models; Running Simulations; & Processing Results** (A.C. Pillai)
- 16:15 **Closing Summary, Signposting & Next Steps** (Julian Gregory)
- 16:30 **Close**

Session detail:

- **Session 1:** Introduction to the *OrcaFlex* modelling environment; model inputs; capabilities of the software; and appropriate use cases in the context of floating offshore wind.
- **Session 2:** After the first break we'll move to a hands-on experience, in pairs or small groups working in *OrcaFlex* to build a model of the IEA 15 MW Turbine using the reference chain catenary mooring system.
- **Session 3:** After lunch we will adapt the model build in session 2 to have synthetic rope instead of chain.
- **Session 4:** And finally, the afternoon will close with running some simulations of the two models and analysing and visualizing the results.

Travel

The Penryn Campus is very well connected with public transport, for details please see here: [Accessing Our Campus – FX Plus](#). Parking is also available at the campus. You can request a 'Free Parking' code from event organisers on the day. Please opt for sustainable travel options such as public transport, walking or cycling wherever possible. If you do choose to drive, please consider carsharing where possible.

Who is it for?

This event is aimed at individuals in Cornwall and the Isles of Scilly interested in, or already working in the green economy, particularly high-growth-potential sectors around offshore wind energy and power and related supply chain sectors across the region. It is also for individuals interested in exploring or progressing within new and emerging green careers.

Eligibility & Paperwork

This fully funded event is free to attend. If you are an eligible Cornish resident you will be asked to submit eligibility information prior to the event and sign paperwork on arrival at the event. This is a requirement of our funder, your assistance is greatly appreciated.

UK Subsidy Control

The UK Subsidiary Aid financial assistance attributed to engagement with this activity is valued at £774.

UK Subsidiary Aid (government state aid as defined at Section 2 of the Subsidy Control Act 2022) will apply if you are accessing this training through your employer or your own business that is an eligible economic entity operating in Cornwall and the Isles of Scilly. Relevant businesses representatives will be asked to sign paperwork confirming UK Subsidiary Aid financial assistance attributed to this engagement.

To satisfy Subsidy Control law, the award will be made on the basis of the "Minimum Financial Assistance" provision ("MFA"), as set out in Section 36 of the Subsidy Control Act 2022. This allows a business to receive up to £315,000 of subsidy over a rolling three-tax year period (including the current one). The threshold takes account of awards of all MFA awarded in the three-year period.

About the Project

The Future is Green

This event is delivered by the University of Exeter under *The Future is Green* project, a collaborative research project that delivers skills development courses and programmes to individuals across Cornwall and the Isles of Scilly. The project aim is to support the development of skills needed for the future green economy. The project is led by The Cornwall College Group in collaboration with 8 highly experienced delivery partners, including the University of Exeter. The project runs from January 2024 to March 2025.

This project is part-funded by the UK Government through the UK Shared Prosperity Fund. Cornwall Council has been chosen by Government as a Lead Authority for the fund and is responsible for monitoring the progress of projects funded through the UK Shared Prosperity Fund in Cornwall and the Isles of Scilly.

By attending this event you confirm that you are happy that your data will be shared with the Lead Partner (The Cornwall College Group) and Cornwall Council and the Department for Levelling Up, Housing and Communities (DLUHC) and their data processors/project evaluators. More information on the University of Exeter's privacy policies can be found [here](#). For more information on the Growth Hub's privacy policy, please visit [this page](#).

Website: sites.exeter.ac.uk/greenskills

Contact

If you need to contact us, please email green.skills@exeter.ac.uk