

# CALL FOR POSTDOCTORAL FELLOWSHIP SELECTION

**PROJECT TITLE:** A Carbon Credit Assessment Framework for energy transition in offshore production

**RESEARCH AREA:** Computer Science, Knowledge representation applied to offshore production, Numerical simulation

**COORDINATOR:** Profa. Dra. Celma de Oliveira Ribeiro (Poli-USP)

## REQUIREMENTS:

- The candidate must hold a PhD in fields related to Computing, Applied Mathematics, Physics, Statistics, Electrical or Electronic Engineering, Mechanical and mechatronics Engineering.
- The candidate must have obtained their PhD less than seven years ago.
- Academic (Master's and/or PhD) or professional experience in areas related to knowledge representation, such as Ontologies or Metadata.
- Knowledge and experience in Python programming.
- Project management experience is desirable.

## DESCRIPTION OF ACTIVITIES:

- Development of a conceptual description of offshore production chains through knowledge representation techniques, focusing on environmental parameters.
- Development of mathematical tools for quantitative assessment of GHG emissions along the production chains.
- Literature review on GHG emissions modeling;
- Conducting and supporting the implementation of case studies to test and evaluate the developed systems.
- Support in supervising the Technical Training scholarship holders responsible for system development.

**General Conditions:** Exclusive dedication to the research project. Hybrid work model (the fellow must be available for in-person activities twice a week)

**Duration:** 24 months, with the possibility of extension

**Application Deadline:** September 20th.

Interested parties should send their CV and doctoral diploma to Prof. Marcelo de Souza Lauretto [marcelolauretto@usp.br](mailto:marcelolauretto@usp.br), with the subject "Post-Doctoral Scholarship Application"