

A Carbon Credit Assessment Framework for energy transition in offshore production Universidade de São Paulo

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Job Title A Carbon Credit Assessment Framework for energy

transition in offshore production

Department Departamento de Engenharia de Produção

https://ppgen.poli.usp.br/

Institution Universidade de São Paulo

São Paulo, , Brazil

Date Posted Aug. 26, 2025

Application Deadline Oct. 31, 2025

Position Start Date Available Immediately

Job Categories Post-Doc

Academic Field(s) Ecological and Environmental

Engineering Physics Computer Science

Industrial & Systems Engineering

Job Website https://www.linkedin.com/company/otic-offshore-

technology-innovation-center/

Apply By Email otic.jobs@usp.br

Job Description

The Carbon Credit Assessment Framework aims to develop a computational environment that integrates environmental and economic perspectives to support the analysis of alternative technological pathways in offshore production. The project focuses on the conceptual modeling of offshore production chains, the elicitation of environmental parameters, and the development of tools for quantitatively assessing GHG emissions. These tools will be integrated with economic risk assessments (carried out by other team members) to support decision-making and the adoption of



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efficient emission reduction strategies.

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

PhD in fields related to Computing, Applied Mathematics, Physics, Statistics, Electrical/Electronic/Industrial Engineering (obtained less than seven years ago).

Academic or professional experience in areas related to knowledge representation, such as Ontologies or Metadata and Python programming.

Project management experience is desirable.

Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact Offshore Technology Innovation Centre - OTIC

Departamento De Engenharia De Produção

Universidade De São Paulo

Avenida Prof. Mello Moraes, 2231 São Paulo, São Paulo 05508-030

Brazil

Phone Number +55 11 30911701 Contact E-mail otic.jobs@usp.br