

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
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