**RESEARCH SCHOLARSHIP OPPORTUNITY**

| **Position reference number** |  | **Deadline for application** | 28/02/2025 |
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| **Institution** | Universidade de São Paulo, Escola Politécnica |
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| **Department** | Engenharia Mecatrônica |
| **Supervisor** | Newton Maruyama |

| **Funding source** | FAPESP | **Type** | PhD |
| --- | --- | --- | --- |
| **Duration (months)** | 36 | **Hours/week** | Full Time |
| **Monthly stipend** | R$  5.520,00     (BRL Brazilian Reais) | | |
| **Workplace** | Escola Politécnica, Universidade de São Paulo, Av. Prof Mello Moraes 2231, Cidade Universitária, São Paulo SP, Brasil | | |
| **Planned start date** | March 2025 | | |

| **Project title** | **Título do projeto** |
| --- | --- |
| Design of a data centric reference architecture for offshore oil production systems. | Projeto de arquitetura de referência centrada em dados para sistemas de produção de óleo *offshore*. |
| **Research theme** | **Tema de pesquisa** |
| Data centric architecture, data analytics, offshore oil production | Arquitetura centrada em dados, Análise de dados, sistemas de produção de óleo |
| **Project abstract** | **Resumo do projeto** |
| The main objective of this research is the design of a data centric reference architecture for offshore oil production systems that is adequate for data analytics and that can meet requirements of QoS, real-time and cybersecurity. | O objetivo principal é a proposta de uma arquitetura de referência centrada em dados para sistemas de produção de óleo que seja adequada para análise de dados e que atenda os requisitos de qualidade de serviços (QoS), tempo real e segurança. |

| **Requirements for the candidate** | **Requisitos para o candidato** |
| --- | --- |
| Bachelor Degree in STEM and a Master Degree in Computer Science or Computer Engineering (preferentially in the topic of computer architecture or computer networks). | Bacharelado em Ciências Exatas ou Engenharias e Mestrado na área de Computação/Engenharia de Computação (Preferencialmente na área de arquitetura de computadores ou redes de computadores). |

**NOTES**

* This research scholarship is offered by the OTIC – Offshore Technology Innovation Centre, a research center based at the University of São Paulo, Brazil.
* The scholarship will cover a standard monthly stipend determined by the funding agencies.
* Foreign candidates must fulfill the immigration requirements and obtain the necessary visas to work as researchers in Brazil. (Help will be offered to the selected candidate.)
* After the application process, potential candidates will be invited for personal or remote interviews.

**REQUIRED DOCUMENTS FOR APPLICATION**

* Single-page presentation letter. Introduce yourself and share your motivations for applying for this position.
* Brief curriculum vitae with academic and professional experience, highlighting the skills that will contribute to this position.
* Recommendation letters (optional). One or two recommendation letters will help support your application.

**APPLICATION PROCESS**

* Prepare an e-mail to [otic.jobs@usp.br](mailto:otic.jobs@usp.br).
* Add “Application to [POSITION\_REF\_NUMBER]” to the subject.
* Gather all required documents above and attach them in PDF format.
* Send your application before the deadline above.

If you have any questions, please write to [otic.jobs@usp.br](mailto:otic.jobs@usp.br).