

Development of an Automated Method for Forecasting the  
Operating State of Subsea Systems  
University de São Paulo

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Posted Nov. 4, 2024, set to expire Mar. 6, 2025

<b>Job Title</b>	Development of an Automated Method for Forecasting the Operating State of Subsea Systems
<b>Department</b>	Escola Politécnica
<b>Institution</b>	University de São Paulo São Paulo, São Paulo, Brazil
<b>Date Posted</b>	Nov. 4, 2024
<b>Application Deadline</b>	Nov. 21, 2024
<b>Position Start Date</b>	Available Immediatly
<b>Job Categories</b>	Post-Doc
<b>Academic Field(s)</b>	Engineering Physics
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**Job Description**

**Research theme**

Aplication of reliability, risk analysis and artificial intelligence techniques to provide subsidies for the development of digital shadows of subsea pieces of equipment.

**Project abstract**

To present a methodology for the development of digital shadows of subsea systems capable of predicting the behavior and operational conditions of such systems from monitored data and estimated parameters. Based on digital shadows application, a procedure to define equipment inspection and maintenance schedule based on risk analysis techniques will be developed aiming at controlling risks during an operational campaign. The digital shadow model shall be developed in Python Software.

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**Requirements for the candidate**

PhD or Doctoral degree in engineering, physics or mathematics.

**Contact Information**

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

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