Name of the hosting institution in France: Dassault Systèmes
Name of the host laboratory / research team: Dassault Systèmes
Address: 10 rue Marcel Dassault
Website: 3ds.com
Name of the supervisor: MARIANNE Alain
Function: M&O Industry Solution Experience Senior Manager
Email: Alain.marianne@3ds.com
Phone number: +33 1 6162 6912

Internship offer

Topic of the internship (title): Marine and Offshore Cyber System
Proposed dates of the internship: Start 01/11/2023 End 30/04/2024

Scientific and academic objectives of the internship:
In Marine and Offshore Industry Solutions department within an Industry 4.0 environment, you will be part of a team in charge to build up a Digital Twin ship on 3DEXPERIENCE platform.
Your main mission will be to define, during the conception phase of a cargo ship or a submarine drone a Cyber System model relying on our MBSE (Model Based System Engineering) suite and RFLP concepts (Requirement Functional Logical Physical).

Key activities:
- Working with senior engineers & in discussions with customers during requirements definition & analysis.
- Converting operational needs into technical requirements specifications.
- Working with Business Development and Program Management during capture & proposal phases.
- Define functional systems and sub systems from initial scenarios, requirements and regulations in Marine & Offshore domains in dedicated software applications.
- Simulate System Models in context of System of System.

Trainings and qualifications:
Dassault Systèmes will provide a set of trainings with qualification on the following product:
- 3DEXPERIENCE CATIA
- Dymola-Modelica
- NO Magic – CAMEO

Internship duration: 5 months minimum and should start before end of 2023.

Industrial partner

Does the project involve a French industry partner? Yes
Name: Dassault Systèmes / Marine and Offshore Industry Solutions
Role of the industrial partner in the internship project: hosting the intern and providing expertise and skills and platform tools on M&O Project development
Main contact: Alain Marianne
Email: Alain.marianne@3ds.com
Main contact industrial partner’s branch in Australia: DS Australia Pty. Ltd. (Adelaide) | University of Adelaide - North Terrace Campus, PO Box 13005, University of Adelaide, SA 5005, Australia: +61 3 9274 2299

Australian partner

Is the internship project proposed in the framework of an existing collaboration with an Australian partner university? [Select Yes/No]
Name of the Australian partner institution: [Insert here]
Lab/department/team involved in the collaboration: [Insert here]
Main contact in the Australian partner institution: [Insert here]
Function: [Insert here]
Email: [Insert here]
Outside of this ongoing collaboration, will students from other Australian universities be considered by the hosting institution in France?

### Expected profile of applicant

<table>
<thead>
<tr>
<th>Level of study</th>
<th>Bachelor of Honour: BEng (Hons)</th>
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</thead>
<tbody>
<tr>
<td>Discipline</td>
<td>Main topics: Naval Architecture / System Engineering / Mechanical Design</td>
</tr>
<tr>
<td></td>
<td>Optional: Computational Fluid Dynamic; Finite Element Modeling</td>
</tr>
<tr>
<td>Prerequisite knowledge, qualities and skills</td>
<td>Teamwork spirit. To be able to analyse quickly and to produce synthesis in a high tech environment. Keen to design complex mechanism in a digital environment. Experience and skills on Mechanical Design and System Engineering modeling are needed. Skill on Finite Element Modeling and Computational Fluid Dynamic are a must.</td>
</tr>
<tr>
<td>Other specific eligibility criteria</td>
<td>Australian citizenship</td>
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</tbody>
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