

# New Open Position



TFG\_02A\_Structural\_Test\_Junior\_Engineer\_170717

<b>Department</b>	Launch and Mission Operations
<b>Position</b>	Structural Test Engineer – Internship / Master Thesis
<b>Description</b>	<p>PLD Space is developing a family of reusable rocket launchers that aims to offer a more affordable, flexible and responsive access to space.</p> <p>To accomplish that, PLD Space needs to master the development of the recovery subsystem and related recovery operations.</p> <p>During this internship / master thesis, the person selected will validate the structural model of the rocket launcher when landing in the water by developing from concept to execution a drop-test.</p>
<b>Responsibilities</b>	<p>The person selected will be responsible of leading the consecution of the drop-test in order to validate the structural model of the rocket launcher when landing on water.</p> <p>The different responsibilities will be:</p> <ul style="list-style-type: none"><li>- Definition from scratch of the drop-test, taking into account: location, materials and mock-ups needed, instrumentation, permits and other legal documents that may be required to carry out such test.</li><li>- Understanding of the analysis and calculations of the stress loads expected during the landing on water</li><li>- Development of a validation model in order to ensure that the result of the drop-test will be used to validate the structural model of the rocket</li><li>- Definition and selection of the instrumentation (sensors) needed to carry-out such drop-test</li><li>- Definition and execution of test procedures</li></ul>
<b>Required Competences</b>	<ul style="list-style-type: none"><li>- Last year of Aerospace or Mechanical/Industrial Engineering</li><li>- Demonstrable experience in projects and/or internships in the field of structures</li><li>- Knowledge of aerospace primary structures (metallic and composites parts) and secondary structures.</li><li>- Knowledge in the development and execution of tests, by meaning: prediction of a value by a specific method, development of a test method to validate such prediction, execution of the test, interpretation and validation of the prediction.</li><li>- Knowledgeable about Loads Testing techniques as well as interpretation and validation of test data.</li><li>- Hands-on experience on implicit FEM analysis (i.e. Patran/Nastran)</li><li>- Proactiveness and self-motivated.</li><li>- Confident in working under limited supervision.</li><li>- Fluent in Spanish and English</li><li>- Passion for new challenges and for making things no-one has done before</li></ul>

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## Desired Competences

- Familiar with reading Aerospace normative, papers and documentation.
- Knowledge in selection and use of aerospace standards and application of materials, strengths and properties, design criteria, testing, loading conditions and processes (e.g. non-destructive testing, corrosion prevention, fatigue).
- High degree of CAD competence (preferably Siemens NX or CATIA).
- Knowledge with HyperMesh/Hyperworks is desirable.

## Experience

- No experience is required. However, demonstrable experience in projects and/or internships in the field of structures testing will be highly valuable.
- Other extracurricular experiences abroad (including summer stays at ESA, or similar space organizations) will be highly valuable

## Starting date

September 2017

## Vacancies

1

## Work place

HQ in Elche/Torrellano (Spain). Occasional travels.

## Contract

Internship / Master Thesis - 6 months

## Salary

600 €/month