

## Senior Mechanisms Engineer

### ABOUT ARQUIMEA INGENIERÍA

ARQUIMEA INGENIERÍA S.L.U. is a multinational company founded in 2005, with Headquarters in Madrid (Spain), devoted to design and development of electronic, microelectronic and electro-mechanic systems and components, including smart actuators and mechanisms, sensing systems, integrated circuits (IC) and robotic parts. ARQUIMEA's products and technologies are suitable for those markets and sectors demanding innovation, quality, high performance and reliability, such as Aerospace, Defence & Security, Automotive, Healthcare or Industry.

### Job Description

- You will be responsible for detailed design, development and verification activities under limited supervision of high reliability, complex industrial and space mechanisms.
- You will work closely with senior team members to continue developing your knowledge of space mechanisms design and verification.
- Delegation, mentoring and supervision of junior engineers.
- The successful candidate will be subject to security clearance in order to undertake related work in accordance with business needs.

### Main tasks and responsibilities

- Understand and work according to detailed technical specifications.
- Under limited supervision, perform mechanisms design, analyses and trade-offs.
- Preparation of reports for management, project and department
- Support test campaigns and definition of early prototypes for validation (stress, thermal, radiation, electrical, manufacturing, test, etc.) according to space standards.
- Carry out trade-offs and preliminary concept designs for early phase science studies.
- Develop and maintain excellent customer working relationships.
- Assist in preparation of technical elements for bids and proposals.
- Support other Arquimea departments on studies.
- Support existing projects within Arquimea in a mechanisms engineer role, when required.
- Authoring of clear and concise technical reports and processes, demonstrating a clear understanding of mechanisms design, manufacturing and test.
- Support project development, verification and validation.
- This role may involve some occasional travel.

### Required skills

- Degree in Mechanical Engineering with relevant experience in the Space industry.
- At least 3 years' proven experience working with complex, high-reliability Mechanisms.
- Sound working experience of Motors, Gearboxes, Tribology and Materials for harsh environments.
- Capability to do hand calculations for stress and thermal.
- Basic electrical knowledge.
- Experience of environmental and functional testing.
- Hands on design experience of 3D CAD tools (CATIA V5) and other engineering tools.
- Knowledge of Finite Element Method. Experience with Nastran/Patran will be highly valued.
- Excellent presentation and communication skills.
- Fluency in English.
- Eligible to work in EU.

**INFORMATION AND APPLICATIONS:** [rrhh@arquimea.com](mailto:rrhh@arquimea.com)