

**Job Title:** Mechatronic Engineer  
**Department:** Engineering and contracts follow-up  
**Location:** Torino  
**Reports to (Job Title):** Head of Mechatronics (tbd)

### Job Purpose

To collaborate to the Lead Fast Reactor (LFR) design activities and experimental facilities, focusing-on the on-board systems design of complex machines, mechanisms and robotics applications with particular reference, but not limited to, operation in molten lead or harsh environmental.

### Main Activities

- Ensure the execution of design activities in accordance with best engineering practices.
- Develop the mechanical design of bespoke components/mechanism, from basic up to detail drawing.
- Review the 3D model interfaces within a BIM context and PLM system.
- Define the methodologies for stress analysis of bespoke mechanical components/mechanism (including robotics and mechatronics basis) according to the applicable construction code by using Finite Element Modelling.
- Contribute to the purchasing technical documentation for component supply.
- Technical evaluation and alignment of manufacturer bids for the supply of equipment.
- Preparation and participation in kick-off meetings, review meetings, design meetings and studies.
- Ensure that equipment manufacturers are delivering in accordance with the defined design and manage non-conformities. Supervise expediting.
- Verify the technical correctness of the engineering documents produced when the task is delegated by the Line Manager.
- Contribute to the development and update of Newcleo's General Specifications and standard procedures in the discipline.
- Collaborate with multi-disciplinary engineering teams.
- Coordinate assigned work with other technical personnel as directed.
- Participates in and fosters a work environment that is based upon openness, trust, communication, teamwork, empowerment, innovation, and satisfaction.

### Ideal Background

**Education:** Degree in Mechatronic or Mechanical Engineering  
Master or PhD is a plus

**Languages:** Fluent Italian or English. Working knowledge of the English language is a must.

**Experience / Professional requirements:**

- Experience of engineering aspects related to design, fabrication and assembly of bespoke

- components/mechanism and complex machines (including robotics and mechatronics).
- Experience in the application of specific construction codes (e.g., NUREG, FEM, KTA and/or EURO codes).
  - Good Knowledge of ANSYS Mechanical and Multiphysics for Structural Analysis purpose; Good knowledge of SolidWorks for 3D/2D Modelling is also an asset.
  - Knowledge and/or experience of fabrication aspects, understanding of welding and non-destructive testing topics on complex machines.
  - Experience in a nuclear or other highly regulated environment and good understanding of safety aspects would be a definite advantage.
  - Extensive knowledge of QA systems and their practical application.
  - Not more than/At least 5 years' experience (depending of seniority Junior/Senior) in an Engineering Unit at any industrial mechanical design company or at any mechanical workshop in one or more of the following fields: mechanical components design and manufacturing; manufacturing and assembly of large mechanical components / equipment; design components/mechanism for industrial applications