

Job Title: **Materials Engineering**
Department: Engineering and contracts follow-up
Location: Turin (Italy)
Reports to (Job Title): Head of Materials (*TBD*)

Job Purpose

To collaborate in the Lead Fast Reactor (LFR) design activities and experimental facilities, focusing on material aspects for fuel elements, reactor internals, pumps, and steam generators with particular reference, but not limited to, operation in molten lead.

Main Activities

- Preparation of specifications and material requisitions for component supply.
- Technical evaluation and alignment of manufacturer bids for the supply of equipment.
- Ensure that equipment manufacturers are delivering in accordance with the defined material quality level and manage non-conformities. Supervise expediting.
- Contribute to the development and update of Newcleo's General Specifications and standard equipment data sheets according to specific construction codes (e.g., ASME, RCC-MRx and/or EURO codes).
- Define and supervise materials characterization programs.
- Control the coating quality.
- Knowledge of the inspection expertise of third-party inspections.
- Preparation and participation in kick-off meetings, review meetings, design meetings and studies.
- 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 Nuclear, Mechanical, Aerospace, Chemical or Industrial Engineering. A Master's or PhD is considered an added value.

Languages: Fluent Italian and/or English. Working knowledge of the English language is mandatory. French is a plus.

Experience / Professional requirements:

- Understanding of the main laboratory analytical techniques and use of relevant engineering design codes.
- Knowledge of materials supply and/or qualification according to specific construction codes (e.g., ASME, RCC-MRx and/or EURO codes, nuclear pressurized equipment regulation).
- Knowledge of the main metallurgical production processes and technologies.

- Ability to participate in team meetings and prepare technical presentations.
- 3-year experience in destructive and nondestructive testing.
- Proven competence in mechanical behavior of materials, corrosion and/or tribology.