

Job Title:

Senior Research Engineer

Job Description:

Vesuvius, the world leader in ceramics and refractories related to the molten steel industry, is seeking multiple experienced Research Engineers to join the Flow Control group at our world-class R&D center located close to the Northern France/ Belgium border. Vesuvius is committed to hiring top researchers and project leaders across a broad range of disciplines in order to strengthen its technical base and deliver breakthrough products and solutions in all major product areas. Vesuvius currently employs over 10,000 people and has 70 manufacturing plants in 40 countries throughout the world delivering "best in class" service to its customers on every continent. Come and join our dynamic team in a culturally different environment.

Position Overview:

The Flow Control Research team is looking for Senior Research Engineers to reinforce fundamental and product development Research capabilities, and ultimately grow the Flow Control business globally. The incumbents will manage Research projects, and contribute to better fundamental understanding of process influences on product performance and product failure mechanisms. Typical projects last from 6 months to 2 years and involve up to 5 full-time engineers.

The successful candidate must apply material science concepts and new ideas to develop new technologies for future product development.

These positions offer the opportunity to work in a global organization, which values creativity, collaboration and diversity.

Key Result Areas:

- Leads new product development projects to provide improved product performance or value
- Designs and carries out experiments in support of new product development projects
- Increases fundamental understanding of products and processes
- Identifies and implements improvements in R&D tests, processes and equipment to yield a safer working environment and better quality R&D results
- Collaborates with internal colleagues and external scientists and monitors technology advances in literature, conferences and trade shows

Qualifications:

- Master's or Ph.D Degree in Materials or Ceramic Science/Engineering or related field
- Bachelor's Degree in those field if experience in materials science R&D exceeds requirement

Experience:

- Minimum 4-6 years materials research or new product/process development experience is required, ideally in an industrial R&D setting
- Candidate should have minimum 2-4 years hands-on experience in one or several of the following areas:
 - Ceramics or related materials (Refractories, Advanced Ceramics, Composites, Refractory metals, Carbon Materials for Structural Applications)
 - Advanced material processing
 - Steel Continuous Casting
 - IP Protection

Required Skill Set:**Technical:**

- Significant knowledge of applied materials science and mechanical engineering for high temperature structural applications is required. Capable of getting rapidly up to speed in refractory materials (if not already proficient).
- Logical and methodical. An adept of the "scientific" approach to problem solving".
- Analytical: good problem solving skills, able to resolve complex problems to "first order" phenomena.
- Experimental skills: observation skills, ability to design and build effective research apparatus
- Knowledge in the following subject areas is desirable:
 - Thermodynamic simulation
 - Thermo-mechanical modelling
 - Project management processes

Personal, Operating & Management:

- Energy and Drive
- Ability to communicate effectively to technical and non-technical public.
- Autonomy: self-motivated, organized, focused, sense of priorities. Ability to make complex decisions
- An interest in teamwork and possibly managing a small team

Interpersonal & Communication:

- Fluent English as a working language. International culture. French language is a plus.
- Able to present technical subjects to non-technical audience

Personals:

- Motivated to relocate to Belgium/Northern France

Career Development:

- The candidate should have a potential to later develop into higher-level positions in the organization, not limited to the Research field