

Alloy Development Engineer

Company Overview

OxMet Technologies is revolutionising the design of high performance alloys with its computational ‘Alloys-by-Design’ technology. We are applying this technology across a broad range of market sectors, including: aerospace, automotive, defence, medical-devices, energy and consumer goods. The Company is founded by an internationally renowned engineering team based at the University of Oxford and is extremely well-positioned for rapid growth.

The Role

OxMet is seeking talented and motivated team members to work as Alloy Development Engineers. The ideal candidate will have a strong academic background with experience in developing materials from a laboratory environment to commercial practice. Experience in computational materials modelling for the development of alloys is desirable. Understanding of alloy production processes, manufacturing techniques and materials testing is also desired. In particular we are seeking candidates with knowledge of metal additive manufacturing help to develop the Company’s capabilities in this area.

You will be based at Begbroke Science Park in North Oxford. A highly competitive remuneration package is offered, including salary and equity incentives.

Responsibilities

- Develop new computational models which provide physical insight into the behaviour of alloys, developing improved understanding of the composition-processing-property relationships for alloy design purposes.
- Conducting materials processing trials and materials testing programmes on alloys, defining the necessary analytical and experimental methods needed to prove properties of new alloys and validate materials models.
- Demonstrate and develop technical competency in a specific field of expertise to support new alloy development.
- Provide technical and managerial support to delivering engineering projects.
- Act as a primary contact with industrial partners and funding bodies.
- Contribute in decision making with regard to development of research projects and growth of Company capabilities.
- Identify opportunities for strategic development.

Essential

- Phd in Materials Science, Mechanical Engineering or equivalent.
- Knowledge of physical metallurgy of at least one of the following: steels, aluminium, nickel, titanium or magnesium.
- Experience of building industrial relationships and managing commercially focussed research programmes.
- Excellent written and verbal communication skills, with an ability to interact with a range of stakeholders.
- Strong team player with the ability to work productively on your own.

Desirable

- Experience in the application of computational materials modelling.
- Proficiency in computer programming for the development of computational models.
- A strong publication record demonstrating familiarity with existing research and literature in the field.
- Ability to raise funds through making proposals to funding bodies, investors and industrial companies.
- Familiarity with additive manufacturing including: methods of producing metal powders, additive manufacturing processes, post processing treatments, validation of material performance.

How to Apply

To apply submit a CV and a supporting statement by email to jobs@oxmet-technologies.com. The supporting statement should explain how you meet the selection criteria for the post using examples of your skills and experience. All documents should be uploaded as PDF files with your name and document type in the filename. Please provide details of two referees and indicate if we can contact them now.