



Candidate Information

Position: Materials Research Technician
School/Department: School of Natural and Built Environment
Reference: 24/112332
Closing Date: Monday 30 December 2024
Salary: £33,785 - £38,765 per annum
Anticipated Interview Date: Monday, 13 January 2025
Duration: Temporary, available for 5 months

JOB PURPOSE:

To support laboratory and on-site testing of cement based materials.

MAJOR DUTIES:

1. Work collaboratively with the industrial partner CEMCOR to collect cementitious materials produced at factory, characterise it in NBE laboratories and report the findings to the team.
2. Characterisation - Operation of analytical equipment to carryout cementitious materials research
3. Design and manufacture - complex apparatus/equipment according to specification for research and related purposes.
4. Consult with academic and research staff regarding planning and development of work and provide assistance to them in the development, construction and application of equipment.
5. Contribute to and make recommendations on the development of new or improved methods/techniques.
6. Carry out analysis of information, data and/or calculations identifying issues which require to be addressed.
7. Monitor and maintain a safe working environment in accordance with Health and Safety procedures.
8. Maintain records and oversee budget accounting of materials, stocks and equipment to monitor and control finances.
9. Carry out any other duties which are appropriate to the post as may be reasonably be requested by Supervisor.

ESSENTIAL CRITERIA:

1. Academic and/or vocational qualifications ie HND/HNC and/or NVQ level 4 in Construction, Civil Engineering, Engineering, Geology or other relevant subject (or equivalent).
2. 2 years relevant work experience on materials research including cement, concrete, metals or any construction materials.
3. Comprehensive technical knowledge and experience in own scientific or technical specialism.
4. Well developed understanding of relevant regulations and procedures including Health and Safety requirements.
5. Skills in managing budgets/resources.
6. Well developed communication skills.
7. Training of staff and students in use of equipment and techniques in area of expertise.
8. Ability to plan and allocate work and responsibilities using discretion to determine priorities and resolve conflicts to meet targets and deadlines.
9. Ability to work on site and in laboratory as required by the project plan.

DESIRABLE CRITERIA:

1. Materials related qualification or membership to related professional institutions such as Institute of Materials, Minerals and Mining or Institute of Concrete Technology or Concrete Society.
2. Knowledge of cement chemistry or concrete technology or natural minerals.
3. Working knowledge of analytical equipment for material research.

ADDITIONAL INFORMATION:

Informal queries may be directed to Mark Russell - m.i.russell@qub.ac.uk