Job Description – G7 Project Officer (Materials Characterisation)

**About the role**

To support research students, post-doctoral researchers and academic staff in their effective use of servohydraulic and quasistatic mechanical testing equipment for materials characterization.

**Key responsibilities**

1. Support research students, post-doctoral researchers and academic staff in their effective use of servohydraulic and quasistatic mechanical testing equipment for materials characterization:
   - Maintain quasistatic and dynamic testing equipment in good order, and support experimentation as necessary;
   - Arrange for renewal of all safety-critical hydraulic hoses in servohydraulic test laboratory;
   - Provide service for attachment of strain-gauges to test specimens as required.

2. Support research students, post-doctoral researchers and academic staff in their effective use of metallographic specimen preparation equipment, optical microscopy and photography.
   - Maintain metallographic preparation laboratories in good order and re-stock when necessary. Advise on preparation techniques.
   - Assist users of optical microscopes to achieve the best possible results

3. Provide technical support for the effective use of hole-drilling and resonance-testing techniques for measurement of residual stress and Young's modulus respectively.
   - Maintain equipment in good working order.
   - Provide training for new users.
   - Assist users with interpretation of results.

4. Facilitate development of STEM lab creep experiments.

5. Ensure compliance with all relevant aspects of Health and Safety.

6. Undertake any other duties which may reasonably be required

**Skills and experience**

**Essential**

**Education**

- A degree or equivalent in a scientific subject (preferably engineering).
Knowledge, work and other relevant experience

- Experience in working in an engineering research facility.
- Relevant technical knowledge of equipment typically used in engineering laboratories.
- Experience in developing protocols.
- Relevant health and safety knowledge and an understanding of H&S legislation.

Skills, capabilities and qualities

- Experience of working in an education establishment.
- Excellent oral and written communication skills.
- Excellent attention to detail.
- Demonstrable ability to plan and prioritise own workload to deliver in a timely manner under schedule and deadlines.
- Demonstrable ability to work both as part of a team and on own initiative.
- Practical IT experience in the suite of Microsoft Office programmes.