# JOB DESCRIPTION

**Vacancy Ref: A2069**

<table>
<thead>
<tr>
<th>Job Title:</th>
<th>Research Associate for Radiation Damage in High Temperature Superconductors</th>
<th>Present Grade:</th>
<th>6P</th>
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</thead>
<tbody>
<tr>
<td><strong>Department/College:</strong></td>
<td>Engineering Department</td>
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<td><strong>Directly responsible to:</strong></td>
<td>Doctor Samuel Murphy</td>
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<tr>
<td><strong>Supervisory responsibility for:</strong></td>
<td>Research Students, UG Project Students</td>
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## Other contacts

**Internal:**
Professor Colin Boxall, Professor Malcolm Joyce, academic staff and PDRAs in the Engineering, Chemistry & Physics Departments and the Materials Science Institute.

**External:**
Tokamak Energy, EPSRC

## Major Duties:

1. Support and undertake research activities necessary to achieve the objectives of the Tokamak Energy and EPSRC Impact Acceleration Account Funded project entitled “Radiation damage in high temperature superconductors”, said research to include laboratory investigations, literature and database searches in one or more of the following areas: radiation damage in materials, materials in extreme environments and molecular dynamics simulation.

2. Contribute to the planning, development & writing of research publications and research / progress reports or disseminate research findings using other appropriate media.

3. Contribute to the making of presentations at conferences and to funding bodies (both internal and external) or exhibit work at other appropriate events.

4. Support the co-ordination, administration and supervision of research students within the Department, especially those working in nuclear related areas.

5. To promote the nuclear related activities of the Engineering Department and the Materials Science Institute within the University and with external bodies including (but not limited to) Tokamak Energy.

6. To contribute to teaching activities supportive of the strategic and academic objectives of the Engineering Department.