

**JOB DESCRIPTION**  
**Research Associate in the Theory of Molecular Electronics**  
**Vacancy Ref: A2685**

<b>Job Title:</b> Research Associate in the theory of atomic quantum clusters	<b>Present Grade:</b> 6
<b>Department/College:</b> Physics	
<b>Directly responsible to:</b> Prof Colin Lambert	
<b>Supervisory responsibility for:</b> Co-supervision of PhD students	
<b>Other contacts</b>  <b>Internal:</b> Members of Prof Lambert's research group comprising 2 research fellows, 2 postdoctoral researchers and 16 PhD students  <b>External:</b> Collaborators within the EPSRC-funded project QSAMs. A range of outside collaborators from EPSRC and EU funded projects.	
<b>Major Duties:</b>  <b>Under the guidance of Prof Lambert, the post holder will be expected to:-</b> <ol style="list-style-type: none"> <li>1. Take responsibility for day to day project management of the EU-funded Bac-To-Fuel project.</li> <li>2. Analyse results from computational simulations and analytical theory.</li> <li>3. Contribute to the interpretation of the results.</li> <li>4. Build models of quantum transport at the molecular scale.</li> <li>5. Contribute to the development of GOLLUM.</li> <li>6. Draft scientific papers arising from the project.</li> <li>7. Participate in national and international conferences, presenting the results of the project and learning about current advances in the field.</li> <li>8. Generally help with the running of the research group, including: supervision of new/junior members of the group and PG students.</li> </ol>	