

## Personnel Specification Research

**Job Title** Research Associate (Energy Storage-Hydrogen)  
**Ref:** C08/391  
**Department** School of the Built Environment  
**Faculty** Art, Design & Built Environment

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| <b>Educational and Professional Qualifications</b> | <i>Essential</i> | A degree in an engineering or applied sciences discipline or equivalent  |
|  | <i>Desirable</i> | A relevant higher degree and/or PhD  |
| <b>Previous Experience/ Training</b>               | <i>Essential</i> | Evidence of having undertaken research involving systems associated with the safe storage and/or use of hydrogen as an energy vector<br>Evidence of design and/or evaluation of hydrogen/gas storage systems<br>Knowledge of computational fluid dynamics for non-reacting and/or reacting flows |
|  | <i>Desirable</i> | Experience of research proposal development<br>Knowledge of object-oriented languages such as C++ and/or PHP   |
| <b>Job Related Achievements</b>                    | <i>Essential</i> | Evidence of successful completion of projects within deadlines<br>Evidence of writing technical reports<br>Good knowledge of computer applications   |
|  | <i>Desirable</i> | Evidence of developing new concepts and ideas in this or related fields<br>Evidence of collaboration with prestigious national or international institutions   |
| <b>Inter-Personal Skills</b>                       | <i>Essential</i> | Evidence of ability to communicate effectively both orally and in writing<br>Evidence of ability to work in a team environment<br>Evidence of ability to show initiative<br>Evidence of ability to work without supervision when required  |
|  | <i>Desirable</i> | Evidence of ability to convey ideas to both technical and non-technical audiences  |
| <b>Research and Analogous Activities</b>           | <i>Essential</i> | Evidence of formal research output, e.g. publications in academic journals and/or conferences<br>Evidence of strong industrial and academic research links   |
|  | <i>Desirable</i> | Knowledge of funding sources<br>Knowledge of commercial opportunities in this area   |
| <b>Other Factors</b>                               | <i>Essential</i> | Willingness to travel  |
|  | <i>Desirable</i> | Driving Licence  |