

## Personnel Specification

**Job Title** Research Associate  
**Department** School of the Built Environment  
**Faculty** Art, Design & Built Environment

**Ref:** C09/099

<b>Educational and Professional Qualifications</b>	<i>Essential</i>	A degree in physics, 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 development of engineering systems. Knowledge of computational fluid dynamics.
	<i>Desirable</i>	Experience of hydrogen safety. Experience of formulating testing procedures. Knowledge of object-oriented languages such as C++ and/or PHP. Experience of preparing technical drawings.
<b>Job Related Achievements</b>	<i>Essential</i>	Evidence of successful completion of projects within deadlines. Evidence of writing technical reports. Good knowledge of computer applications.
	<i>Desirable</i>	Evidence of developing new concepts and ideas in research. Knowledge of computer software for engineering design. Knowledge of Intellectual Property/Patent Issues.
<b>Inter-Personal Skills</b>	<i>Essential</i>	Evidence of ability to communicate effectively both orally and in writing. Evidence of ability to work in a team environment. Evidence of ability to show initiative. 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. Evidence of industrial and/or academic research links.
	<i>Desirable</i>	Skills in research of hydrogen reacting and non-reacting jets. Knowledge of commercial opportunities in this area.
<b>Other Factors</b>	<i>Essential</i>	Willingness to travel
	<i>Desirable</i>	Driving Licence

The University is legally required to confirm that all new appointees are eligible to work in the UK. If selected for appointment and prior to taking up the post offered at Ulster you must confirm your eligibility to work within the UK by attending a 'New Start' session and produce relevant original documents in order to confirm your identity and entitlement to work in the UK.