

## Job Description

Role: **Research Associate** Ref: **C09/219**

Reports to: **Director of the HySAFER Centre**

Responsible to: **Head of the School of the Built Environment**

Job Purpose **To provide development of innovative safety devices for hydrogen industry**

### Main Duties

1. Carry out hydrogen safety research at an international and national level and to disseminate the outputs from this research through publications, etc.
2. Perform theoretical and numerical assessment of performance parameters of safety devices, arrange experimental testing of prototype(s) within budget.
3. Overview of available patents and standards, know-hows, relevant technologies, etc.
4. Undertake pre-test calculations and numerical simulations to have insight into underlying physical phenomena and foresight to ensure the product prototype meets the market needs.
5. Prepare drawings of safety device prototype(s) for manufacturing.
6. Formulate testing procedures, participation in experiments and testing when performed by subcontractors.
7. Prepare subcontract(s) and liaise with collaborators/ subcontractors.
8. Preparation of quarterly reports to funding body.
9. Travel to subcontractor(s) as required.
10. To carry out any other duties as may from time to time be required by the school, faculty and the university.