

**PERSON SPECIFICATION**

**Research Associate in Process Monitoring and Optimisation of Plastic Pipe Welding**

(For the research project: “**DIGI**tal platform for defect-free plastic **PIPE**s **WELD**ing**: DIGIPIPEWELD**.”)

| Criteria | Essential/ Desirable | Application Form/ Supporting Statements/ Interview\* |
| --- | --- | --- |
| An undergraduate degree or equivalent, preferably in an Engineering discipline. | Essential | Application Form |
| A PhD or MSc in Engineering or Data Science or a related discipline | Essential | Application Form |
| To convey an appropriate rationale and interest in applying for this particular post. Essential Application Form | Essential  | Application Form |
| Ability to meet tight deadlines, plan and prioritise tasks to support the project success. | Essential | Supporting Statements/Interview |
| The ability to handle and prioritise a wide portfolio of research-based responsibilities in a challenging environment. | Essential | Supporting Statements/Interview |
| A thorough working understanding of experimental techniques in manufacturing and process monitoring | Essential | Supporting Statements/Interview |
| The ability to communicate effectively, both orally (Excellent presentation skills) and in writing, especially refereed publications. | Essential | Supporting Statements/Interview |
| Experience in data analytics, machine learning and optimisation algorithms  | Essential | Supporting Statements/Interview |
| Evidence of strong intellectual and analytical skills, including the ability to engage effectively with new research challenges, and to derive new experimental and analytical methods necessary to meet the objectives of the project.  | Essential | Supporting Statements/Interview |
| Experience in sensor technology, signal processing and data driven modelling, and in using embedded data acquisition systems and software programming  | Desirable  | Supporting Statements/Interview |
| Experience of quantitative research such as study design, managing projects, quality assuring and analysing data | Essential | Supporting Statements/Interview |
| A willingness to travel to industry partners for experiments and testing. | Desirable | Interview |

* **Application Form** – assessed against the application form, curriculum vitae and letter of support. Applicants will not be asked to make a specific supporting statement. Normally used to evaluate factual evidence eg award of a PhD. Will be “scored” as part of the shortlisting process.
* **Supporting Statements** - applicant are asked to provide a statement to demonstrate how they meet the criteria. The response will be “scored” as part of the shortlisting process.
* **Interview** – assessed during the interview process by either competency based interview questions, tests, presentation etc.