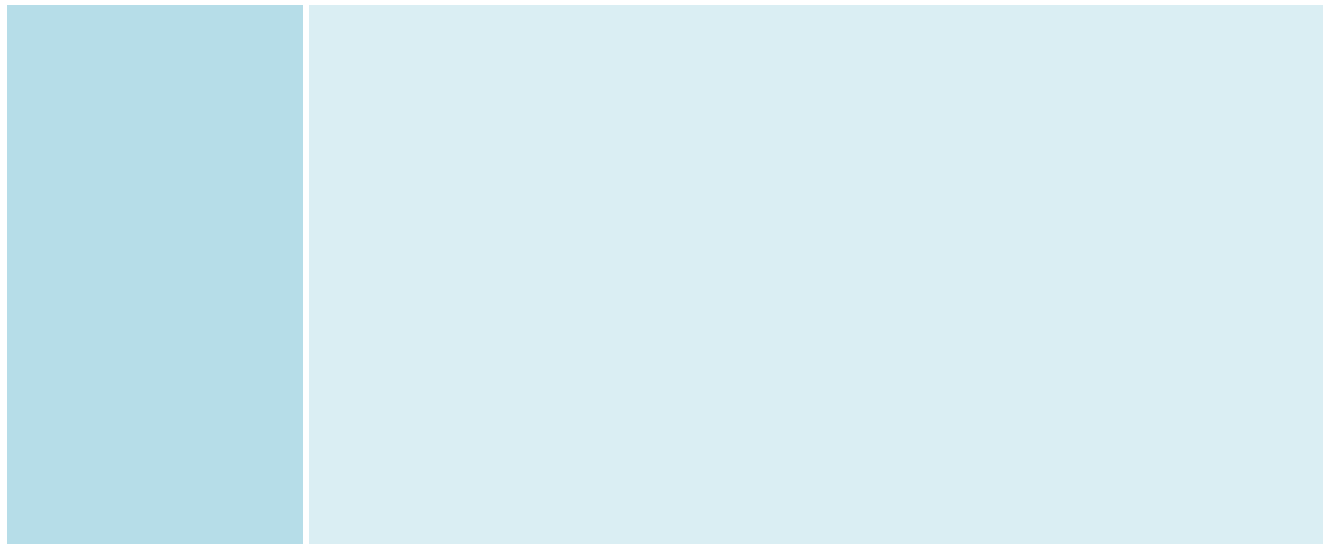




Type Job Title here	
Job Title:	Research Assistant
Reference No:	0290-17
Reports to:	Senior Lecturer
Responsible For:	
Grade:	C
Working Hours:	37 hours per week for nominal purposes
Faculty/Service:	Dept. of Computing, Engineering and Technology
Location:	Technip / The Industry Centre
Main Purpose of Role:	To plan, develop, and support the implementation of a range of maintenance strategies at the partner company. This will involve working closely with staff within amap and at the partner company
Key Responsibilities and Accountabilities:	<p>Faculty Specific:</p> <ul style="list-style-type: none">• To collect and analyse large amounts of manufacturing and maintenance data to support strategy development.• To prepare a number of reports based upon tasks, milestones and key deliverables• To develop and deliver progress reports and presentations to senior management within amap and the partner company• To carry out research in Advanced Maintenance to support the work programme• To prepare high end journal and conference papers• To participate in the planning of academic conferences, short courses and seminars to be held at Sunderland.• To ensure schedules are adhered to. <p>Generic to all Research Assistant roles:</p> <ul style="list-style-type: none">• Undertake basic research for example by preparing, setting up, conducting and recording the outcome of experiments and field work, the development of questionnaires and conducting surveys.• Conduct literature and database searches.• Continue to update knowledge and develop skills.• Seek to exploit the outcomes of research.• Assist in the supervision of student projects.• Could be expected to contribute to delivery of modules for example on the use of research methods and equipment.



Special Circumstances:	Local travel required
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Part 2A: Essential and Desirable Criteria

	<p>Essential</p> <p>Qualifications and Professional Memberships:</p> <ul style="list-style-type: none"> • Degree / Postgraduate Diploma or higher in Manufacturing, Mechanical Engineering or equivalent
	<p>Knowledge and Experience:</p> <ul style="list-style-type: none"> • Possess sufficient breadth or depth of specialist knowledge in the discipline. • Proven communication skills, including presentation to various audiences. • Exceptional accuracy, thoroughness, attention to detail, and organisational skills. • Knowledge of manufacturing techniques and processes
	<p>Desirable</p> <p>Qualifications and Professional Memberships:</p> <ul style="list-style-type: none"> • Degree with significant mechanical and or electrical engineering content
	<p>Knowledge and Experience:</p> <ul style="list-style-type: none"> • Experience of writing reports and presentations • Knowledge of manufacturing equipment including electrical systems • Prior Industrial experience • Knowledge of modern maintenance practices

Part 2B: Key Competencies

<p>Competencies are assessed at the interview/selection testing stage</p>	<p>Analysis and Research</p> <ul style="list-style-type: none"> • Gathers data rigorously and conducts robust analysis, questioning assumptions and existing knowledge. • Reports findings to wider community and is able to withstand challenge by relying on evidence gathered and processes used for analysis.
	<p>Communication</p> <p>Oral</p> <ul style="list-style-type: none"> • Summarises and interprets complex, conceptual and special matters to aid others' understanding and aimed at their needs. • Uses appropriate styles and arguments to influence and negotiate satisfactory outcomes. • Monitors understanding of others, develops approach and takes corrective action if required. <p>Written</p> <ul style="list-style-type: none"> • Conveys information of a complex, conceptual and specialist nature using a range of styles and media selected to meet the needs of others.

- Presents complex information in formats appropriate to non-specialists without comprising meaning.
- Monitors the reactions of others and takes appropriate steps to remedy any miscommunications.

Decision Making

Independent decisions

- Considers wider impact of decisions, assesses possible outcomes and their likelihood.
- Uses judgement to make decisions with limited or ambiguous data and takes account of multiple factors.
- Distinguishes between the need to make a decision, when to defer and when not to take a decision.

Collaborative decisions

- Helps others to explore options that initially appear to be inappropriate or unfeasible and recognise when a decision is or is not needed.
- Enables others to contribute to decisions.
- Ensures that options are weighed, outcomes identified and chances of success considered.
- Challenges decisions, appropriately to ensure consideration and processes are robust.

Contribute to the decision making of others

- Anticipates and highlights issues that need to be taken into account.
- Outlines possible impacting factors, assessing their degree of influence on the choice of options.
- Ensures previous learning is included.

Initiative and Problem Solving

- Initiates processes and procedures to resolve new problems.
- Anticipates possible implementation difficulties and identifies practical ways of overcoming or preventing them.
- Takes account of others and the broader context when generating options.

Pastoral Care and Welfare

- Calms and reassures those in distress.
- Deals with difficult situations or confidential matters, according to policy and procedures.
- Involves others or refers elsewhere for assistance if the situation becomes more complex and if additional help or information is required.

Planning and Organising Resources

- Suggests ways of improving working practice and use of resources.
- Creates realistic plans to achieve own deadlines and objectives.
- Monitors progress of self and or others so that corrective action can be taken if needed.
- Ensures that time and resources are used effectively to their maximum efficiency.

Date Completed:

November 2015