

Job Description

Position:	Knowledge Transfer Partnership (KTP) Associate
School/Service:	School of Engineering (Institute for Materials Research & Innovation)
Reference:	ENG-108/P
Grade:	Grade 5 : F20 – F26 (Research Associate) Grade 6 : F27 – F32 (Post Doctoral Research Fellow)
Status:	Fixed-term for 24 Months
Hours:	37 hours per week
Reporting to:	Professor Baljinder Kandola
Responsibility for:	The design and implementation of the research project related to the development of fire-resistant intumescent protective coatings for steel and other substrates.

Main Function of the Position:

- The RA / PDRA will work on a Knowledge Transfer Partnership (KTP) and Sherwin Williams co-funded project to develop fire-resistant intumescent protective coatings.
- The RA / PDRA will work on commercial products, for which he/she needs to understand Sherwin William's existing products, production methods and problems, and their testing protocols
- The RA / PDRA will be responsible for developing new coating formulations and testing them using small scale lab tests as well as according to industrial standards
- The RA / PDRA will transfer the technology to an existing production facility, helping to define and qualify the production of new/modified coatings.
- The RA / PDRA will liaise with Sherwin William's sales and marketing team to discuss the market and customers for new products, and develop marketing material.

Principal Duties and Responsibilities:

1. To join the research project team to act as one of the key players of the project.
2. To plan and run the project – develop, test and optimise fire-resistant intumescent protective coatings
3. To maintain confidentiality of all research undertaken in Bolton and Sherwin Williams
4. To generate research outcomes from own and team's research efforts and to present reports at project meetings as required.

5. To report to the supervisors on a weekly basis.
6. To comply with the requirements of Health and Safety, COSHH and other relevant legislation
7. To transfer the technology developed to production line in industrial scale.
8. To establish test procedures for quality control of the products.
9. To write up the operational manual and test procedure.
10. To provide training on newly developed products to staff in the company.
11. To attend compulsory training courses as required by the KTP scheme.
12. To identify potential market applications for the new technology.
13. To write scientific papers for quality journals.
14. To attend compulsory training courses provided by the University of Bolton.
15. To carry out other duties within the scope of the School of Engineering as requested by the Principal Investigator.

Note:

This is a description of the position requirements as it is presently constituted. It is the University's practice to periodically review job descriptions to ensure that they accurately reflect the position requirements to be performed and if necessary update to incorporate changes were appropriate. The review process will be conducted by the relevant manager in consultation with the post holder.

Please note that this appointment may be subject to Disclosure and Barring Clearance.

Person Specification

Position: Knowledge Transfer Associate (KTP) Associate		Reference: ENG-108/P	
School/Service: Institute for Materials Research & Innovation			
Criteria		Priority (1/2/3)	Method of Assessment
1 Qualifications			
1a)	First degree at honours level of 2(ii) or higher in Chemistry, Chemical Sciences, Polymer Science, Materials Science or a related discipline	1	Application Form/ Documentation
1b)	A Masters or PhD in Chemistry, Chemical Sciences, Polymer Science, Materials Science or a closely related subject, or awaiting results of submission of thesis	1 (PDRF) 2 (RA)	Application Form/ Documentation
2 Skills / Knowledge			
2a)	Knowledge of polymer/material science and/or technology	1	Application Form/Interview
2b)	Able to plan and initiate research programme	1	Application Form/Interview
2c)	Ability to work with a range of people from diverse backgrounds in the academic and manufacturing sector	1	Application Form/Interview
2d)	Effective written communication skills e.g. ability to write scientific reports and papers, letters, publications, prepare teaching sessions	1	Application Form/Interview
2e)	Effective oral communication skills e.g. able to do presentations, deliver teaching sessions, communicate with external peer group, contribute to meetings	1	Application Form/Interview
2f)	Ability to work independently	1	Application Form/Interview
2g)	Demonstrate effective analytical and problem solving skills	1	Interview
2h)	Ability to write project proposals for external funding	2	Application Form/Interview
2i)	Able to undertake group and individual training as appropriate	1	Application Form/Interview
2j)	Competent in the understanding and application of Health & Safety requirements	1	Application Form/Interview
3 Experience			
3a)	Research record during higher degree experience which demonstrates self-motivation and clarity of purpose	1	Application Form/Interview
3b)	A good working knowledge of materials and analytical techniques	1	Application Form/Interview
3c)	Experience in materials fire testing	2	Application Form/Interview
3d)	Experience of working within an industrial environment	2	Application Form/Interview
3e)	Project management experience and team management or willingness to develop in this area.	1	Application Form/Interview

3f)	Experience or willingness to present at conferences, workshops and seminars	1	Application Form/Interview
4	Personal Qualities		
4a)	Ability to work within a team	1	Interview
4b)	Ability to generate new ideas and concepts	1	Interview
4c)	Ability to work with people at all levels in an organisation	1	Interview
4e)	Ability to assess risk and make decisions which have some defined risk content when designing/implementing project	1	Interview
4f)	Can show personal initiative when unforeseen challenges arise within a project	1	Interview
4g)	Awareness of the requirements associated with operating within a customer service environment	1	Interview
4h)	Commitment to continuous improvement and creative ways of working	1	Interview
5	Other		
5a)	Willing to undertake staff development, which may take place outside the University	1	Interview
5b)	Awareness of the principles of the Data Protection Act, Health and Safety, Freedom of Information Act and Bribery Act	1	Interview
5c)	Commitment to the University's policy on equal opportunities and diversity	1	Interview
5d)	Available to work flexible and travel as appropriate in order to meet the needs of the services	1	Interview

Note:

1. **Priority 1** indicates **essential** criterion – an applicant would be unsuccessful if unable to satisfy all Priority 1 criterion.
2. **Priority 2** indicates **desirable** criterion - applicants failing to satisfy a number of these are unlikely to be successful.
3. **Priority 3** indicates criterion **not specifically required** for the post but in a competitive situation may be used to select applicants who cannot be separated on priorities 1. and 2.
4. Please note it is normally expected that a new appointee will commence at the bottom of the grade.