

Candidate Brief

Biomaterial Medical
Device Scientist –
KTP Associate

Reference: R180301

Salary: £32,000

Contract Type: Fixed Term for 26
months

Basis: Full Time

Closing Date: 26 July 2018

Interview Date: TBC

EXCELLENT
DIFFERENT
DISTINCTIVE
ASTON



Job description

Job Purpose:

This is an exciting opportunity for a candidate with a PhD, or equivalent experience in a relevant role, to develop a highly innovative next generation of implantable devices for fracture fixation. The role will involve defining critical material attributes, establishing and performing associated test procedures, and working with external end users on research. This position is a 36 month fixed term contract, with a £2k per annum dedicated training budget tailored towards your personal development.

This 36 month project takes the form of a Knowledge Transfer Partnership (KTP) (<http://www.ktponline.org.uk/>), which provides you with practical and formal training and the availability of support from experienced mentors, from the Company, Aston University and InnovateUK. You will be based predominantly at Invibio in Thornton- Cleveleys, but will also be required to spend periods of time in Aston University's laboratories.

The Company

Invibio, a Victrex plc company, is a global leader in providing high performance biomaterial solutions to medical device manufacturers. The company provides PEEK-OPTIMA™ polymers, advanced technical research and support and manufacturing of components for spine, trauma and orthopaedic medical segments for the development of long implantable medical devices. Today, Invibio's PEEK-OPTIMA™ polymers are used in ~9 million implanted devices worldwide. Find out more by visiting www.invibio.com

The Project

The company has partnered with Aston University on this KTP project to develop evaluation procedures to determine the mechanisms and effects of particulate debris from Carbon Fibre Reinforced PEEK fracture fixation devices, which will enable increased adoption of this material for use in orthopaedic trauma procedures.

This is an exciting opportunity to carry out research in this relatively unexplored area, where there is a lack of previously generated reference material.

Further details of the main duties and responsibilities of the role are detailed below.

Responsibilities

Main Project Requirements (include but not limited to):

- Establish Advisory Group of key stakeholders including potential users e.g. surgeons/ theatre staff
- Investigate wear debris generation in CFR-PEEK fracture fixation products
- Identify laboratory simulation techniques to mimic wear debris generation
- Develop, optimise & validate testing protocols
- Comprehensive test programme for CFR-PEEK implants
- Commercial implementation of testing programme
- Deliver staff workshops & training to embed new capabilities
- Develop continuous improvement plan

Additional responsibilities

- ▶ Engage in continuous personal and professional development in line with the demands of the role, including undertaking relevant training and development activities to develop themselves and support the development of others.
- ▶ Ensure and promote the personal health, safety and wellbeing of staff and students.
- ▶ Carry out duties in a way which promotes fairness in all matters and which engenders trust.
- ▶ Promote equality of opportunity and support diversity and inclusion as well as working to support the University's environmental sustainability agenda and practices.

Person specification

	Essential	Method of assessment
Education and qualifications	<ul style="list-style-type: none"> - PhD in a relevant discipline e.g. Biomedical Engineering, Polymer/ Composite Materials Science, Mechanical Engineering or related area. - Alternatively, a Masters Degree & a minimum of 2 years' experience in the application of these techniques will be considered. 	Application form
Experience	<ul style="list-style-type: none"> - Managing projects and demonstrating ability to deliver to agreed costs & timescales 	Application form, interview and presentation
Aptitude and skills	<ul style="list-style-type: none"> - Excellent written and verbal communication skills. - Strong organisational skills to take project ownership and achieve agreed objectives - Fit in with the organisational culture and present a positive image of the company to clients. - Appreciation of applicability of technology innovation to market. 	Interview and presentation

	Desirable	Method of assessment
Experience	<ul style="list-style-type: none"> - Previous experience in an R&D setting (academic or industrial) - Previous experience in composites design (ideally including use of Catia software), mechanical testing and manufacturing - Industrial/ commercial experience gained outside of academia 	Application form, interview and presentation

How to apply

You can apply for this role online via our website www.aston.ac.uk/jobs. Applications should be submitted by 23.59pm on the advertised closing date. All applicants must complete an application form, along with your CV.

Any CV sent direct to the Recruitment Team and Recruiting Manager will not be accepted. If you require a manual application form then please contact the Recruitment Team via recruitment@aston.ac.uk.

Contact Information

Enquiries about the vacancy:

Name: Mark Prince

Job Title: Lecturer

Tel: 0121 204 3591

Email: M.PRINCE1@aston.ac.uk

Enquiries about the application process, shortlisting or interviews:

Recruitment Team via recruitment@aston.ac.uk or 0121 204 4500.

Additional Information

Visit our website www.aston.ac.uk/hr for full details of our salary scales and benefits Aston University staff enjoy

Holiday entitlement: 25 days per annum, in addition to 8 days public holidays.

Benefits: <http://www.aston.ac.uk/staff/hr/payroll-pensions-and-benefits/>

Working in Birmingham: <http://www.aston.ac.uk/birmingham/city-living/>

Employment of Ex-Offenders: Under the Rehabilitation of Offenders Act 1974, a person with a criminal record is not required to disclose any spent convictions unless the positions they applying for is listed an exception under the act.

Eligibility to work in the UK: Candidates who are not citizens of the United Kingdom, or another EEA member country, should check their eligibility to enter or remain the UK in advance of making any job application via the UKVI website <https://www.gov.uk/browse/visas-immigration/work-visas>. Before applying you should ensure that you meet the requirements, including meeting the English language standards. If you do not meet the eligibility criteria, any application for a work visa would be unsuccessful

Equal Opportunities: Aston University promotes equality and diversity in all aspects of its work. We aim to ensure, through our admissions policies for students, and our staff recruitment and selection processes that we encourage applications from all groups represented in the wider community at a local, national and international level.

The University will endeavour not to discriminate unfairly or illegally, directly or indirectly, against student or potential students, staff or potential staff. This commitment applies to all functions of the University and to any stage of an individual's career.

An Equal Opportunities Monitoring Form is included within the application form. Data you provide on the Equal Opportunities Monitoring Form will be included in a general database, for statistical monitoring purposes, enabling the University to monitor the effectiveness of its Policy, Codes of Practice and Guidelines on Equal Opportunities in Employment. Individuals will not be identified by name.

Data Protection Act 1998: Your personal data will be processed in compliance with the DPA and from 25 May 2018 with the GDPR. The University's Data Protection Policy and Privacy Notices, including the Job Applicant Privacy Notice can be found at <http://www.aston.ac.uk/data-protection>. Your application will only be used to inform the selection process, unless you are successful, in which case it will form the basis of your personal record with the University which will be stored in manual and/or electronic files. Information in statistical form on present and former employees is given to appropriate outside bodies.



Full details of our terms and conditions of service and associated policies and procedures are available online at www.aston.ac.uk/hr

