



THE POST

College:	College of Engineering, Mathematics & Physical Sciences
Post:	New Product Development Associate (KTP)
Reference No:	P65189
Grade:	E
Reporting To:	Dr Ion Sucala

The above full time post is available from January 2019 for 24 months in the College of Engineering, Mathematics and Physical Sciences. The KTP programme is a partnership between the University of Exeter and SMART Manufacturing Ltd. You will be employed by the University of Exeter, but will spend the majority of your time working on this project at the company premises in Bideford, Devon.

SMART Manufacturing design, manufacture, and supply high quality precision machined manufacturing equipment and products for global customers in the filtration, food and pharmaceutical industries.

KTP (Knowledge Transfer Partnership)

The position is part of the KTP Scheme funded by Innovate UK - <http://ktp.innovateuk.org>

It is important you understand how KTP works with the business and the University and the role the successful applicant will play.

Job Description

Main purpose of the job:

The successful post-holder will be responsible, in conjunction with their Industry and Academic Supervisors, for managing and driving forward this research programme to develop expertise required for the creation and implementation of a dual-production business model and simulation tool to enable the optimisation of multi production manufacturing flows that will facilitate the introduction of a new specialised service for ATEX rated environments

Main duties and accountabilities:

1. To undertake a range of tasks and activities through a supported environment. Responsibilities may include:
 - Assisting as project manager on the KTP programme
 - Capture all knowledge pertaining to ATEX rated machines for the filtration industry, including regulations, functional requirements, manufacturing principles and informal know how.
 - Contributing to
 - development of computer simulation to model existing manufacturing process
 - development of dual production mode design algorithms to adapt production models to include new product lines.
 - developing an innovation management strategy
 - Undertaking a broad range of basic research activity according to the nature of the research project. Maintaining databases, keeping accurate written and computerised records and ensuring data is stored securely and managed in accordance with the Data Protection Act;
 - Conducting literature and database searches as required;
 - Writing up the results of own research;
 - Contributing to the production of research reports and publications;
 - Assisting in the preparation of papers or reports for steering groups and other bodies;

- Providing administrative support to the principal investigator and other project researchers as required;
 - Presenting information on research progress and outcomes to KTP partners and making presentations at conferences or exhibiting work in other appropriate events;
 - Analysing and interpreting the results of own research and generating original ideas based on outcomes;
 - Contributing to the planning of future research projects.
 - Making use of standard research techniques and methods;
 - Assessing, interpreting and evaluating outcomes of the KTP programme
2. To support teaching activity by assisting in the supervision of student projects and providing limited supervision or instruction to classes, if required.
 3. To liaise with members of the research team and other colleagues as appropriate to the research project.
 4. To establish internal and external contacts to develop knowledge and understanding and form networks for future collaboration.
 5. To plan own day-to-day research activity within the framework of the agreed programme of research and co-ordinate own work with that of others in the group to avoid conflict or duplication of effort.
 6. To use research resources, laboratories and workshops as appropriate and to adhere to safety procedures as appropriate. This may include wearing personal protective equipment, conducting risk assessments, reducing hazards and being responsible for the health and safety of others.
 7. To engage in continuous professional development and to be responsible for continually updating own knowledge and understanding in field of study or specialism and for developing own skills.

This job description summarises the main duties and accountabilities of the post and is not comprehensive: the post-holder may be required to undertake other duties of similar level and responsibility.

Person Specification

Competency	Essential	Desirable
Attainments/Qualifications	Educated to first degree level with BEng in Mechatronics or a related field of study or equivalent experience.	MEng in Mechatronics or a related field of study or equivalent experience.
Skills and Understanding	Possess sufficient breadth or depth of knowledge in the discipline and of research methods and techniques to work within own area.	Basic knowledge on modelling and simulation of industrial processes using CAD . Training with simulation software (e.g. Arena, Witness, Solidworks, Autocad)
Prior Experience	Understanding of health and safety legislation. Industrial experience of a mechanical manufacturing environment(internships, placements, employment)	
Behavioural Characteristics	Commercially astute.	Demonstrate understanding and interest in industrial processes optimisation and improvement

	<p>Ability to maintain accurate records.</p> <p>Ability to organise and prioritise own research work within the project framework.</p> <p>Good written and verbal communication skills.</p> <p>Computer literate.</p> <p>Good analytical skills.</p> <p>Able to liaise with colleagues and students.</p> <p>Able to build contacts and participate in internal and external networks for the exchange of information and collaboration.</p> <p>Actively participate as a member of a research team</p> <p>Engage in continuous professional development.</p> <p>Understand equal opportunity issues as they may impact on areas of research content</p>	
Circumstances	Willing to work flexibly to achieve project demands.	Driving licence

Informal Enquiries

Before submitting an application you may wish to discuss the post further by contacting Dr Ion Sucala, , telephone (01392/01326 4046) or email I.Sucala@exeter.ac.uk.

Terms & Conditions

Our Terms and Conditions of Employment can be viewed [here](#).

Further Information

Please see our [website](#) for further information on working at the University of Exeter.