Knowledge Transfer Partnership

Position  Project Engineer for Digital Manufacturing Innovation
Company  Innovare Systems Limited, Coventry CV49XL
Duration  26 months
Salary  £28,500 + £4,300 of career development
Reference  79085-027
Starting Date  April 2017
Closing Date  21 Feb 2017


This is an exciting new opportunity for Master level candidates to participate in an InnovateUK funded KTP (Knowledge Transfer Partnership) project involving The Warwick Manufacturing Group (WMG) at the University of Warwick, and Innovare Systems. The KTP is aiming to bring digital innovation in the domain of building and construction industry. The objectives are to manage volatility, variation & complexity of offsite construction and to develop new agile manufacturing techniques in order by combining recent innovations in Building Information Management (BIM) & digital simulation, with flexible automation & assembly processes to deliver bespoke, high-quality components. This position is a 26 month fixed term contract with an annual salary of £28,500, and a £4,300k dedicated training budget tailored towards your personal development.

Required Qualification

MSc in Manufacturing Eng, Electrical Eng or Production Mgt or a Min 2:1 degree in similar subjects with at least 2 yrs relevant experience in the domain of manufacturing and/or industrial production. The candidate must be familiar with basic concepts of industrial production (e.g. lean manufacturing, process management, optimization, etc), fluent with computer and digital environment and familiar with computer-based production modelling and simulation techniques.

Required Profile

The candidate must be computer literate, and able to work productively with all Microsoft Office tools including Excel and Access and should be capable of manipulating standard engineering data in file formats commonly used in engineering (e.g. CAD files, CSV, large Excel tables, etc.).

The candidate must have a first-hand experience in the use of digital engineering and 3D modelling tools such as CAD solutions (e.g. Solidworks, Autodesk products or equivalent) and ideally would have experience in using engineering & simulation packages (e.g. Witness, FlexSim, Dassault solutions). A good understanding of the challenges faced by production and manufacturing engineers and key areas of improvements for both production and manufacturing system design is highly suitable.

In addition to technical capabilities, the candidate should be able to effectively own and manage a project involving several parties internal or external to the company. Solid communication skills & the ability to report and communicate project results in a professional manner are required.

You will be working as part of a collaborative research project and must be able to operate effectively in a multi-disciplinary team including factory personnel. Importantly you should be able to take responsibility and have the confidence and ability to embed the new knowledge to the Innovare Systems team through training, paired working and via related documents. Interest in novel technologies, innovative engineering approaches and a solid scientific background & culture would be highly valuable.
Duties and Responsibilities

1. Define in collaboration with the Innovare engineering and production staff, the project’s specific objectives and the detailed planning of specific tasks and key milestones in order to achieve the KTP objectives in time.

2. Achieve extensive background research, market and technologies surveys related to the KTP’s objective: improve existing and design new production and manufacturing operation at Innovare Systems.


4. Initiate the deployment of a digital strategy to capture and monitor current operations and quantify production performances in line with the concepts of Industry 4.0.

5. Define a migration strategy allowing Innovare Systems to gradually improve their overall production and specific processes while maintaining productivity and market competitiveness.

6. Maintain constant communication with Innovare Systems and WMG University staff, departments and the project steering committee in order to plan, execute and manage the KTP-related activities.

7. Responsible for establishing dissemination channels and methods (e.g. training courses, dissemination events and presentation, discussion forums, training material, detailed project documentation) in order to ensure an effective knowledge transfer to the Innovare Systems Staff.

8. Contribute to the preparation of reporting material for the project Steering Committee and support day to day project’s management tasks.

9. Define a personal development plan with the Help of Innovare System and Warwick University staff, and attend all necessary KTP related courses, events, management and reporting meetings if and when necessary.
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<th>REQUIREMENTS</th>
<th>ESSENTIAL (E)</th>
<th>DESIRABLE (D)</th>
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<tr>
<td>Good honours degree (2:1 or above) in Mechanical Engineering or related discipline or considerable equivalent industrial experience</td>
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<tr>
<td>MSc in Manufacturing Engineering, Electrical Engineering or Production Management preferred, or considerable equivalent industrial experience</td>
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<td>First-hand experience in the use of digital engineering and 3D modelling tools such as basic CAD work package (e.g. Solidworks, Autodesk products or equivalent)</td>
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<td>Experience of project management and good report writing skills</td>
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<td>Knowledge of CAE modelling and simulation software and techniques</td>
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<td>Good computer skills, with proficiency in all Office tools including Excel and capable of manipulating standard file formats commonly used in engineering</td>
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<td>Enthusiastic approach to work with a high level of self-motivation</td>
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<td>Good report writing skills</td>
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<td>Ability to work alone and as part of a multi-disciplinary team</td>
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<td>Excellent interpersonal and analytical skills together with the ability to work with senior management staff</td>
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<td>Excellent oral and written communication skills, including a patient approach to knowledge transfer activities</td>
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<td>Fluent in written and spoken English</td>
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<td>Industrial experience in engineering and production environments,</td>
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<td>Knowledge of mechanical engineering, production methods and manufacturing processes</td>
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<td>Experience of using some form of automated manufacturing equipment (e.g. NC machines)</td>
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<td>The ability or potential to publish high quality work in relevant field</td>
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Knowledge Transfer Partnership

**KTP information**

This post is part of the Knowledge Transfer Partnership (KTP) initiative funded by Innovate UK. Knowledge Transfer Partnerships is a UK-wide programme that has been helping businesses for the past 40 years to improve their competitiveness and productivity through the better use of knowledge, technology and skills that reside within the UK Knowledge Base. If you want to apply your degree and experience, start a “real job” straight away and gain a professional qualification, then a Knowledge Transfer Partnership (KTP) is what you’re looking for. For further information visit [http://KTP.innovateuk.org](http://KTP.innovateuk.org).

The Candidate will be working as part of a collaborative industrial project and must work effectively in a multi-disciplinary team including factory personnel. Importantly the candidate should be able to take responsibility and have the confidence and ability to lead the project and embed the new knowledge to the Innovare team through training, paired working and through organising dissemination events. Interest in novel technologies, innovative engineering approaches and a solid scientific background and culture would be highly valuable.

**Contacts:**

**Innovaré Systems**

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**Warwick Manufacturing Group**

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**Useful Links:**

- Innovare Systems  
  [http://www.innovaresystems.co.uk/](http://www.innovaresystems.co.uk/)
- Warwick University  
  [http://www2.warwick.ac.uk/](http://www2.warwick.ac.uk/)
- Warwick Manufacturing Group  
  [http://www2.warwick.ac.uk/fac/sci/wmg/](http://www2.warwick.ac.uk/fac/sci/wmg/)
- Innovate UK  
  [https://www.gov.uk/government/organisations/innovate-uk](https://www.gov.uk/government/organisations/innovate-uk)
- KTP  
  [http://KTP.innovateuk.org](http://KTP.innovateuk.org)