

Case Study

Innovation through collaboration

Megan Jobson – Knowledge Base Supervisor with Process Integration Ltd

“KTP provides hands-on learning, deeper understanding of the problems being addressed and creative collaborative exchange of ideas.”

Dr. Megan Jobson,
The University of
Manchester

“It is hugely satisfying to see promising research results and a talented graduate both realising more of their potential than the PhD process allowed.”

Dr. Megan Jobson,
The University of
Manchester

Partnership with Process Integration Limited

Process Integration Limited provides state-of-the-art process improvement technologies for the oil, gas, petrochemical and chemical industries by identifying innovative improvements in operation and design.



Company Overview

Process Integration Limited provide innovative technology and software product solutions to maximise manufacturing asset profitability within the oil, gas, petrochemical and chemical industries.

Following the supervision of a PhD that developed an approach for modelling and optimising the operation of crude oil distillation units in order to improve yield and energy efficiency, Dr. Megan Jobson applied for a KTP with Process Integration to apply and further develop this methodology to historical and 'live' consultancy projects in order to make it more industrially relevant, and to integrate the methodology into a new software product that the company could exploit.

Academic Benefits

The KTP has enabled Megan to supervise and collaborate on a project that aims to transfer leading research knowledge into a real world application. Supporting live consultancy projects with operational Chinese and Spanish refineries to field test research findings has helped to extend the concepts developed in the PhD, leading to conference presentations and publications, two graduate internships and further support for ongoing PhDs.

Process Integration has further strengthened the relationship with Megan by contributing £40,000 towards a one-year part-time Industrial Secondment, jointly sponsored by Royal Academy of Engineering, so that Megan can spend more time interacting with the company and their clients. The KTP has also provided invaluable knowledge transfer and enterprise supporting evidence for a successful application for promotion from Senior Lecturer to Reader.



Knowledge Transfer Partnerships

Sharing knowledge. Unlocking potential. Delivering success.

Knowledge Transfer Partnerships is a UK-wide, government-funded, programme supporting UK businesses to improve competitiveness, productivity and performance through better use of the knowledge, technology and skills available within Universities and other UK knowledge bases.

On average, businesses participating in KTP gain:

- £261k anticipated annual increase in profit post-project completion
- £265k being invested in R&D activity
- £967k anticipated annual increase in exports

Academics can expect to benefit by:

- publishing high-quality journal and conference papers
- generating research income
- informing new research agendas and contributing to REF

Why Manchester?

Knowledge Transfer Partnership collaborations with The University of Manchester enables businesses to collaborate with leading academics and researchers whose quality, breadth and volume of research activity is unparalleled in the UK.

Our dedicated Knowledge Exchange Team will help partnerships to develop meaningful collaborations, providing support throughout the life cycle of the project; scoping and planning, applying for funding and supporting delivery.

Contact us

Contact the Knowledge Exchange Team to discuss how we can help you to innovate and build a strategy for success.

Knowledge Exchange Team
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