

Case Study:

KROHNE Limited

University of
Kent

A Knowledge Transfer Partnership (KTP) project to develop methods for calibrating and verifying measuring devices to improve performance has been graded as “Outstanding” by Innovate UK.

The project was developed between the University of Kent and KROHNE Limited, a world-leading manufacturer and supplier of solutions in industrial process instrumentation. KROHNE Ltd, based in the UK, is the group’s global centre of excellence for Coriolis mass flowmeter technology.

Following a previous successful collaboration between Kent and KROHNE involving Dr Xue Wang from the University’s School of Statistics, Mathematics and Actuarial Science, the company was keen to develop a new robust model-based approach to improve measurement performance of their flow meters. The importance of precision measuring is paramount for KROHNE and the results of the project proved to be significant.

The partnership developed an advanced procedure reducing overall testing time and increasing production calibration capacity by more than 30% for some key product lines: this led to improved product performance with enhanced functionality and a reduction in manufacturing and maintenance costs. Dr Xue Wang’s expertise in statistical regression analysis was crucial to the project’s success.

Edward Jukes, Research and Development Manager, KROHNE Limited said:

“Working with the University of Kent has encouraged us to explore the uses of mathematical and statistical sciences for engineering and manufacturing technologies. The KTP has not only enabled us to develop and embed an advanced statistical approach to the production process, but also encouraged us to take a fresh view towards fundamental research.”

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