

Case Study

Arvia Technology

Developing a novel treatment process for drinking water

Challenge

Entry into the UK drinking water market requires Drinking Water Inspectorate (DWI) regulatory approval and consequent acceptance in the industry's 5 year asset management plan (AMP).

In order to apply for such approval, Arvia needed to demonstrate and develop a deeper understanding of the performance of their technology to address the treatment of very low and trace organic contaminants.

Innovation

Arvia sought expertise from Professor David Polya and Dr Bart Van Dongen from The University of Manchester, whose research encompasses quantification of micropollutants in drinking water.

Together with KTP Associate Mohammed Akmez Naberasool they developed a project plan to establish and embed in-house skills to better understand the mechanisms of organic breakdown and contaminant interaction.



Working with Arvia on this KTP has enabled us to use our expertise to help promote British job-creating solutions to important environmental challenges.



Prof David Polya,
The University of Manchester



Impact

The KTP Partnership has proved commercially advantageous, resulting in a number of key achievements:

- The DWI application has been submitted and approved, and Standard Operating Procedures have been developed and embedded for 7 key water quality determinants
- Arvia's strategic realignment is anticipated to generate in excess of £0.5M additional annual sales
- Arvia has employed 4 new staff and is now working with a number of water companies to implement treatability studies and pilot facilities

Company Overview



Arvia Technology was formed as a spin out from The University of Manchester to commercialise a water and wastewater treatment technology. After successfully demonstrating the benefits of the system to the nuclear industry to treat radioactive oils, Arvia wanted to apply the process to offer a new and alternative technology for the treatment of drinking water.



Analysis of micro-pollutants was beyond Arvia's capabilities and working with the University allowed Arvia to develop in-house expertise, whilst applying for the relevant approvals and gaining a deeper understanding of the process. 

Nigel Brown, Founder
Director, Arvia

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.

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