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Case study

Working with Ozone Industries Ltd

Knowledge Transfer Partnership (KTP) between Ozone Industries Ltd. and Cardiff Metropolitan University has advanced ozone disinfection science from laboratory research to commercial innovation — delivering safer, more sustainable solutions for public health and food safety.

The Sponsors

Innovate UK's successful Knowledge Transfer Partnership (KTP)

programme enables collaborations between businesses, universities, and graduates to transfer academic expertise, drive innovation, and boost competitiveness across the UK.



About the Ozone Industries Ltd. industry-university collaboration

The collaboration between **Cardiff Metropolitan University's Ozone Research Group** and **Ozone Industries Ltd.** was supported by Innovate UK. This partnership brought together the company's expertise in ozone generation with Dr James Blaxland's specialist knowledge in microbiology and disinfection science. The goal was to design and validate new ozone-based systems that effectively eliminate pathogens while meeting strict safety and regulatory standards.

Working within Cardiff Met's Centre for Health, Immunology, Microbiology and Environment, the team used state-of-the-art facilities, including a bioaerosol chamber for testing airborne microorganisms and a biofilm simulation reactor, to replicate real-world contamination and evaluate ozone efficacy.

The project delivered validated ozone delivery and monitoring systems compliant with BS EN 17272 standards, data to inform the forthcoming EU Biocidal Products Regulation (BPR) benchmark for ozone disinfectants, and a roadmap for commercial rollout across healthcare, hospitality, and food manufacturing sectors.

This partnership reflects the goals of **A Healthier Wales** and **A More Resilient Wales**, reducing reliance on chemical disinfectants and contributing to sustainable, evidence-led innovation.



UK Research
and Innovation



The Company

Ozone Industries Ltd. specialises in advanced ozone and UV disinfection systems for air, water, and surface applications. The company is committed to developing technologies that improve hygiene, reduce environmental impact, and protect public health.

“Working with Dr Blaxland and the team at Cardiff Metropolitan University has propelled the profitability of Ozone Industries Ltd. We have expanded our product range, increased staff numbers and sales year on year.”

Mike Prince, CEO, Ozone Industries Ltd.

This collaboration has already led to the installation of ozone systems in a 5-star Welsh hotel chain, with plans for national rollout, demonstrating real-world commercial and environmental impact.

The Associate

The project’s **KTP Associate, Ben Meyrick**, a graduate biochemist, played a key role in linking laboratory trials with industrial testing. The project has since created new graduate opportunities within both the company and Cardiff Metropolitan University’s growing ozone research portfolio. He was able to undertake specialist project management training, attend company symposiums, author academic publications and present at international scientific conferences as part of his role.

The Academic Partner

Dr James Blaxland, Senior Lecturer in Microbiology and founder of the **Ozone Research Group**, leads applied research in disinfection science and biocidal product regulation.

The Ozone Research Group also works with partners including InBio, the ZERO2FIVE Food Industry Centre, Public Health Wales, The European Ozone Trade Association and the International Ozone Association, contributing to policy, training, and new product innovation across sectors.

If you are interested in working with Cardiff Metropolitan University to help boost your business through innovation and partnership, please email Joanne Hill, Knowledge Transfer Programme Manager at ktp@cardiffmet.ac.uk.