

Innovate UK

Results of Competition: India-UK Collaborative Industrial Research & Development
Competition Code: 1411_CRD_IND_UK

Total available funding for this competition was £1.5M from Innovate UK

Note: These proposals have succeeded in the assessment stage of this competition. All are subject to grant offer and conditions being met.

Participant organisation names	Project title	Proposed project costs	Proposed project grant
InnoNano Research Pvt Ltd The Bio Nano Centre Ltd Indian Institute of Technology	Development of a novel combined arsenic filtration/monitoring system for community-scale water supplies	£614,451	£227,225
Project description - provided by applicants			
<p>The WHO has estimated that 140 million people globally drink water containing arsenic above safe levels. Arsenic is a toxic naturally-occurring contaminant that enters aquifers from natural sources in the bedrock and also from human activity such as industrial manufacturing and mining. Arsenic is toxic even at extremely low levels (WHO recommended levels are 10 parts per billion) with long-term exposure leading to fatal internal cancers among 10% of those exposed. Because arsenic is tasteless, odourless and gives no acute symptoms such as fever or pain until after prolonged exposure, arsenic poisoning has been justifiably coined the 'silent killer', causing a public health crisis. Water testing is key to arsenic mitigation and management, where the adage 'what you cannot measure you cannot manage' is pertinent. Because current tests for measuring arsenic contamination in drinking water are only semi-quantitative, time-consuming and require trained personnel, there is a need for improved tests that are rapid, affordable, accurate and easy-to-use. In this project the team will develop an innovative handheld sensor for arsenic that will then be integrated into a novel arsenic filter.</p>			

Note: you can see all Innovate UK-funded projects here

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INRDVS Electrical Consulting Pvt Ltd R&D Vehicle Systems Ltd	Low cost Battery Management System (BMS) for automotive and stationary applications	£1,059,813	£300,000
Project description - provided by applicants			
RDVS has an existing Battery Management System ('BMS') which is too expensive for simple energy storage applications in the West, and vehicle and genset applications in emerging markets. The Indian Government requires access to clean vehicle technologies however even after the introduction of measures such as NEMMP, mass production and adoption of cleaner vehicles has not taken off due to non-availability of affordable, quality technology solutions. This proposal is to jointly develop a production-ready low-cost BMS, with a technology demonstrator. It will have applications in both the Western and developing markets, thus benefit both companies. The BMS will be easily scaled by different customers to meet different application needs. The innovation of the project lies in the fact that the proposed BMS will be designed for India and to be made in India, meeting the market demand for performance and cost.			

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Sainergy Fuel Cell India Pvt Ltd Amalyst Ltd IIT-Madras	Low-cost, high-performance membrane electrode assemblies (L-CHIP MEA) for fuel cell applications	£563,162	£171,581
Project description - provided by applicants			
Amalyst has a class of non-platinum, high-performance catalysts for fuel cell and water electrolyzers. Working with Sainergy Fuel Cell India and IIT-Madras, the consortium will tackle the cathode challenges for fuel cells by developing a low-cost, high-performance membrane electrode assemblies (MEA) utilising AMCAT catalyst. The technology is first targeting back-up power generation for the burgeoning Indian telecom tower industry. Mobile devices have been a transformative social phenomenon in India over the last decade, but access to the 'connected world' is still intermittent as most telecom towers require on-site diesel power generators with high operation costs and high carbon emissions. Stationary fuel cells offer a green alternative to diesel power generation with both huge market potential and huge benefits throughout Indian society ' benefits like social inclusivity, telecommunication integrity and carbon-emission reductions demanded by the Indian government. The outcome will be a new low-cost and high-performance MEA ready for deployment in India and poised to help accelerate the uptake of hydrogen as a carbon-free, 21st century energy vector globally.			

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BioMedix Optotechnik & Devices Pvt Ltd Spectra Medical Ltd Gooch & Housego (Torquay) Ltd	Next-Gen Low Cost OCT	£967,014	£280,387
Project description - provided by applicants			
This project aims to develop a new device that will change the way ophthalmic healthcare is delivered to people in the developing and developed world. It is a partnership that brings together the best technology in the U.K and fuses it with the best software and medical expertise in India to produce a world class collaboration. This collaborative research will take advantage of an emerging technology - Optical Coherence Tomography - to improve eye care for all.			

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