

# Innovate UK

**Results of Competition: Newton Fund - India Round 4**  
**Competition Code: 1611\_CRD1\_NEWTON\_IndRd4**

**Total available funding is £1.6m.**

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

<b>Participant organisation names</b>	<b>Project title</b>	<b>Proposed project costs</b>	<b>Proposed project grant</b>
<b>Osprey R&amp;D Ltd</b>	Development of Smart Electronically Controlled Hybrid Energy Recovery Systems for Buses and Electric Vehicles	£310,333	£217,233
Brunel University London		£129,762	£129,762
<b>Project description - provided by applicants</b>			
<p>The simplest way to reduce carbon dioxide and other emissions from buses is to use less fuel and to electrify small passenger cars. The Vulcanaer system reduces fuel usage in urban buses &amp; electric vehicles by harvesting braking energy and storing it as compressed air for subsequent use. Vulcanaer is a retrofit technology so can easily be applied to older buses and can be used by bus fleet operators with no government subsidy. With the aid of the newly developed electronic control, the project aim is to confirm fuel savings- expected to be 5-10%, through application to an urban bus in India and running it on a real, bus route for several weeks. The technology will also be applied to the small electric vehicles to improve the traction control and provide a cost effective cool air supply in place of more expensive and energy intensive air conditioning. If successful, the project will reduce fuel usage for every single bus and electric vehicle it is installed on, and so reduce costs to users and operators, and lead to new manufacturing jobs in India (and potentially in the UK) and provide a real contribution to cleaner air in cities.</p>			

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Innovative Technology and Science Limited	The Development of a Portable THERMOgraphy-based Health DeTECTion Application (THERMOTECT) in breast cancer screening in India	£266,024	£186,217
TWI Ltd		£113,677	£113,677
<b>Project description - provided by applicants</b>			
<p>Breast cancer is the most common cancer in women worldwide, with nearly 1.7 million new cases diagnosed in 2012 (second most common cancer overall). This represents about 12% of all new cancer cases and 25% of all cancers in women. According to the World health Organisation (Global Health Estimates 2013, Although breast cancer is thought to be a disease of the developed world, almost 50% of breast cancer cases and 58% of deaths occur in less developed countries. This includes India, where for every two women newly diagnosed with breast cancer in India, one of them will die. This project therefore seeks to develop THERMOTECT (a novel portable thermography based health detection application for use as a highly efficient, less invasive, more convenient and safe breast cancer screening tool) in India. Our technology applies thermography and computer based image interpretation to deliver improved detection, non-ionisation, safety and user/patient experience. This innovative project will be based on a portable mobile device application. The successful exploitation of the technology will result in cumulative revenue of £18.5m after 6 years in the market.</p>			

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<b>NeuDrive Limited</b>	PROTECTT 'PoRtable Organic Transistor basd biosEnsor for low Cost Thyroid Testing'	£396,709	£277,696
<b>Project description - provided by applicants</b>			
Project PROTECTT PoRtable Organic Transistor based biosEnsor for low Cost Thyroid Testing™ aims to develop a low cost portable device to detect thyroid conditions in a Point of Care setting. This 2 year project brings together the expertise of NeuDrive Ltd (UK) and Bhat Biosciences India Pvt (India) to develop a new type of electronic biosensor device. The developed technology will deliver a rapid, accurate and simultaneous test for a range of indicator hormones that can be readily interfaced with mobile devices to offer healthcare professionals to conduct rapid screening for thyroid conditions. Deployment of the technology in the market will offer the potential of rapid identification and diagnosis to a wide range of patients who might otherwise not have their condition identified until a point where long lasting effects of the condition can seriously affect quality of life.			

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Innovative Technology and Science Limited	A-PATH	£345,407	£241,785
TWI Ltd		£103,821	£103,821
<b>Project description - provided by applicants</b>			
<p>A-PATH aims at improving healthcare and quality of life by fostering research collaboration between experienced UK and Indian organisations to develop affordable wearable bio-sensing and human motion monitoring suits and passive and active exoskeletons to assist essential human motions. The new technologies are aimed at elderly persons and workers for medical and non-medical applications. The exploitable outputs comprises sensing suits to assess health and physical activity level. A-PATH will enable new commercial and competitive solutions addressing the key societal challenge of affordable healthcare technologies (for medical and non-medical applications) in India and UK, with the ultimate goals of contributing to its economic development and reduce its poverty, by bringing together experienced partners from India and UK to advance the exoskeleton technology viable products. The development of innovative affordable techniques focused on improving healthcare and quality of life issues will open up new societal focussed research, and commercialisation opportunities for both UK and Indian organisations to grow to be more competitive.</p>			

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<b>Cenergist Limited</b>	Optimal Water Flow Management for Crop Irrigation (OPTIFLO)	£448,774	£314,142
<b>Project description - provided by applicants</b>			
Over extraction of ground water for irrigation has been identified as a root cause of India's severe water crisis. Indian agriculture uses over 30 million ground water irrigation pumps and 90% of the available groundwater for irrigation. 10 million of these pumps rely on diesel fuel, while the rest are powered by subsidised coal-fired grid electricity, using over 18% of all electricity generated in India (Indian Bureau of Energy Efficiency). Project OPTIFLO (Optimal Water Flow Management for Crop Irrigation) project will further advance a highly innovative, domestic water and energy saving technology, for use agricultural irrigation in India. This will result in a new efficient irrigation solution that will significantly reduce water wastage, cut energy usage and reduce carbon dioxide emissions. This will alleviate the ground water crisis and will improve the social welfare of India's population.			

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