

Innovate UK

Results of Competition: APC4 Driving UK Capability and Economic Impact Through Low
Competition Code: 1505_CRD_TRANS_APC4

Total available funding for this competition was £60M from Innovate UK (on behalf of APC/BIS)

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
Nissan Motor Manufacturing UK Ltd Zero Carbon Futures (UK) Ltd Hyperdrive Innovation Ltd Newcastle University University of Warwick	High Energy Density Battery (HEDB)	£19,026,511	£9,512,990
Project description - provided by applicants			
Awaiting Public Project Summary			

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

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Morgan Motor Company Manufacturing Ltd Delta Motorsport Ltd Potenza Technology Ltd	CO2 divided by 2	£5,964,590	£2,967,945
Project description - provided by applicants			
Morgan Motor Company will collaborate with Delta Motorsport and Potenza Technology on a 3-year, APC-supported R&D project to develop new propulsion solutions for its future vehicle range. These solutions will include heavily down-sized, fuel efficient petrol engines coupled with the latest electrification technologies to produce hybrid sports cars and all-electric variants. The objective is to develop these solutions such that they can be manufactured and offered within the Morgan sports car range prior to 2020.			

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AGM Batteries Ltd Dukosi Ltd Johnson Matthey Battery Systems Ltd Cosworth Group Holdings Ltd University of Warwick	UK Automotive Battery Supply Chain (UK-ABSC)	£5,402,158	£2,700,929
Project description - provided by applicants			
The UK Automotive Battery Supply Chain project will create the ability to deliver next generation batterypacks for high performance low carbon vehicles. The project recognises the needs of the growing UKautomotive industry and capitalises on world leading UK innovations in the area of battery technology. Thecollaborative project combines UK innovations and knowledge from five partners; AGM Batteries (a batterycell manufacturer), Dukosi (a leader is smart battery management technology), Johnson Matthey BatterySystems (a battery pack manufacture), Warwick Manufacturing Group (an academic group with specialistbattery knowledge and facilities) and Cosworth (a world leading high performance powertrain developer).			

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Parker Hannifin Manufacturing (UK) Ltd Ashwoods Automotive Ltd University of Bath Nexen Lift Trucks Ltd	Advanced Energy Management System for an Electric Forklift Vehicle	£2,857,918	£1,424,324
Project description - provided by applicants			
This project aims to improve the energy efficiency performance of an electric forklift vehicle thereby significantly reducing the vehicle's emissions out compared with current best-in-class technology. To achieve this objective, partners will realise the industry's first integrated hydraulic power unit for versatile integration to low voltage implementation drive for electric forklift vehicles. A technology demonstration unit will be simulated on an OEM vehicle's drivetrain to identify the appropriate vehicle configurations and power requirements, prior to physical integration and evaluation. The consortium consists of Parker Hannifin (Hydraulics, Tier 1 Supplier), Ashwoods Electric Motors (IPM Motor, SME), UniCarriers (OEM), and the University of Bath (Academic). In addition to reducing the carbon footprint of electric forklift vehicles, project outputs have the potential to provide a significant improvement in productivity and ownership costs for the end user with a new integrated solution providing a step-change in cost, performance, efficiency, size and weight, thus replacing traditional less efficient motor drives within the commercial market.			

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Jaguar Land Rover Ltd BorgWarner Ltd Ricardo UK Ltd Robert Bosch Ltd GRM Consulting Ltd	Lighweight Advanced boostEd Diesel Engine - LAtiTUDE	£13,122,209	£6,561,102
Project description - provided by applicants			
<p>An innovative research project led by Jaguar Land Rover, LAtiTUDE investigates new technologies for the Ingenium engine family to improve on its class-leading fuel efficiency whilst maintaining the in-vehicle feel Jaguar and Land Rover customers expect. The collaboration brings together leading expertise from UK engineering organisations Ricardo and GRM, and suppliers Borg Warner and Bosch. The collaborative partnership will research a variable geometry, multi-stage and electronic boosting system integrated with an advanced engine combustion system incorporating leading edge fuel injection equipment and controls. Allied with an optimised engine structure, the research package is targeted to deliver over 10% fuel economy and CO2 improvement compared with current vehicles. The consortium members recognise the importance of collaborative research projects in supporting the UK's competitiveness and developing skills, innovations and new manufacturing capability throughout the automotive supply chain.</p>			

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The London Taxi Corporation Ltd GKN Autostructures Ltd Revolve Technologies Ltd Hssmi Ltd (High Speed Sustainable Manufacturing Institute Ltd)	Hybrid UK supply chain co-development	£46,475,328	£17,526,784
Project description - provided by applicants			
<p>The London Taxi Corporation (LTC) is embarking on a wider project to deliver a series of light-weight, zero-emission capable, range extending vehicles. The new vehicle design, with improved driver ergonomics, will be configured to meet onerous duty-cycle needs. The initial market will be the UK, to meet targets for de-carbonising transport operations (e.g. TFL), Europe & globally thereafter. The key part of the project is to develop the hybrid supply chain within the UK. LTC will work with SMEs and the RTO HSSMI to develop the supply chain capability such that more value added operations can be re-shored to the UK. LTC will host an LTC-supplier co-development space in which LTC and partners will develop the capabilities for low carbon hybrid powertrains. The project aims to support the involved SMEs to become capable of not only selling to LTC but to export to other OEMs nationally and internationally.'</p>			

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