Results of Competition:Technology Inspired Innovation Feasibility Studies 2015 - EPESCompetition Code:1505_FS_EPES_TII

Total available funding for this competition was £2.7M from Innovate UK (over all strands)

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	
Pragmatic Printing Ltd	COSMOS (COmplementary	£149,795	£110,884	
ARM Ltd	Semiconductor using thin-film			
University of Bath	Metal-Oxide Systems)			
Project description - provided by applicants				
Flexible electronics is a key enabler for embedde objects are connected to the Internet. Objects whether the second second is a second	nich can both sense theirenvironmen	t and communicate, provide imp	portant new data which can be	

the IoT is the convergence of emerging electronics (flexible, low-cost and simple) with conventionalelectronics (complex, rigid and expensive). In order to maximise the opportunity for flexible ICs, it is necessaryto develop CMOS circuits, which use both n-type and p-type semiconductors. This project will investigate thefeasibility of integrating a p-type oxide material into an existing NMOS process, in order to produce CMOScircuits and the viability of manufacturing scale-up.roject Summary

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

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Applied Materials Technology Ltd	Low-cost Spatial Beam	£149,456	£104,619
Euriscus Ltd	Combination enabling UV Laser Diode Arrays for Stereolithography		
Project description - provided by appli	cants		
AwaitAdditive layer manufacturing (ALM) has re- microlattice materials in industries such as aero machines but despite high costs (>£25k), theore manufacturingcosts only supporting prototyping enabling laser technology for stereolithography reliability, longevity, tuneability, compactnessar lasers forstereolithography will significantly imp raster scanning systems to promote ALM as ar Summary	ospace, automotive & medicaldevices. ost and performance of current laser so g. Applied Materials Technology and E with a radical improvements tothe cos nd electrical efficiency. The step chang prove laser scanning speeds, improve p	The laser is the primary compo- purces ' particularly for stereolith uriscus Ltd seek to address this t, power density, compactness, e in the expense, functionality, part quality and bring opportunit	nent and expense in ALM nography ' result in requirement through a novel stability, switching speed, performance and size of iesto introduce high speed

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
IS-Instruments Ltd	Advanced Raman gas sensing	£141,428	£111,674
University of Southampton	using Microstructered Fibres		
Project description - provided by application	ants		
In recent years Raman analysis of samples has observation offers greater flexibility and near rea sensitivity of e.g. Gas Chromatographs or IRabs advance thedevelopment of Microstructured Opt be made. This approach will lead to the develop classical Raman instruments.ject Summary	al time analysis. However themost co corption spectroscopy, limiting the ap tical Fibres to produce a new sensor	ommon implementations of this to opeal to industrial applications. In r in which high sensitivity gas pha	echnique often lack the a this study we will look to aseRaman measurements car

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
M-Squared Lasers Ltd	Airy Light Sheet Microscopy for	£150,000	£118,500
University of St Andrews	Neurological Imaging		
Project description - provided by application	ants		
Awaiting PublSince the invention of the microsco rapidly advanced through photonics-centred ima significant technical advances that will enable the unprecedented resolution. Theseadvances in bio understand the world better and move from a tree the next decades that will drive trillion \$ markets intellectual property (IP) that will be transformatio markets and taking part in driving the healthcare	ging and detection. World-leading pl e comprehensiveimaging and detect ophotonics are set to transform the fu- atment to a prevention based health . Working closelywith one of the glob anal in the deployment of biomedical	hotonicsgroups in the UK have u tion of a range of molecular biolo uture of healthcare and improve ncare system. Theseadvances w pally leading UK Universities, M	uncovered a series of ogical systems with everyones life by helpingus to vill mark a global revolution in Squared has recently acquired

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Project title	Proposed project costs	Proposed project grant
Self Optimising CIP (Clean in	£143,573	£113,078
Place)		
	Self Optimising CIP (Clean in	Self Optimising CIP (Clean in£143,573

Project description - provided by applicants

Cleaning of production lines is one of the most time consuming and costly stages of food and drinkmanufacturing. Cleaning is also one of the most inefficient stages as Clean in Place (CIP) systems are designed commissioned for the worst case scenario. This is the food materials and operating conditions which areknown to foul the equipment the most. In daily use this often results in the over cleaning of the productionlines coming at a great expense to food manufacturers. This is primarily due to unnecessary line downtime and resource utilisation. This feasibility project will develop a small lab scale experimental rig and assess thepotential of different online sensors and artificial intelligence to quantify the level of internal fouling and autonomously optimise the CIP process in real time. This technology will dramatically reduce the time, cost and environmental impact required for cleaning.blic Project Summary

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Greentech Automation Ltd	Advanced Burner Flame	£149,050	£99,363
RJM Corporation (EC) Ltd	Monitoring through Digital Imaging		
Project description - provided by application	ants		
The variations in fuel ingredients (biomass, biofu the power generation and related industries. This alleviate these impacts. The projecthas two main assess the efficacy and operability of the system versions of the systems have been tested previor settings in real time on a full-scale powerstation undertakenjointly by GreenTech Automation Lim Public Project Summary	s project aims todemonstrate a digita n objectives: (1) To develop a prototy on full-scale power stations for emiss pusly, this will be the first timethe outp and will thus be a world first. This tec	I imaging based flame monitoring pe of the advanced flame monitoring sion reduction and efficiency imports from such systems are use shoology-inspired innovation feat	ng technology that can toring system; (2) To provement. Whilst laboratory d to optimise burner and boile asibility study will be

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