Innovate UK

Results of Competition: Open under 12 months and under £100k
Competition Code: 1606_SC_Open_R1

Total available funding is £13m (for all projects up to 12 months including Market Research)

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Composites Evolution Ltd	Carbon fibre self-adhesive tape for rapid structural repairs (CarboTape)	£90,317	£63,222
Project description - provided by applicants			
Duct tape is used as a quick and easy way to reinforce and repair countless items in households and light industry, and the European market alone is worth £145 million per year. However, being made from cotton or glass fibre cloth with a low performance polymer coating and simple contact adhesive, it has limited performance so cannot be used for a host of more demanding, structural repairs such as automotive parts, sports equipment, marine and military applications. There is a clear gap in the market for a high-performance tape which can provide temporary or permanent reinforcement/repair in these more demanding applications. To meet this market demand, we will develop a highly innovative and potentially disruptive product, in the priority area of Manufacturing and Materials, with major opportunity for growth, especially in export markets. Our approach is to develop a structural self-adhesive tape, similar in concept to duct tape, based on high strength carbon fibre and a structural adhesive. We will use a novel method to produce ultra-thin, flexible carbon fibre tapes, pre-bonded with an engineering grade thermoplastic resin and coated on one side with an adhesive. This high-performance tape will be 20 times stiffer and 7 times stronger than cotton-based duct tape, whilst being much quicker, easier and safer to use than current carbon fibre-epoxy repair materials. The project will significantly enhance the growth and global competitiveness of Composites Evolution, leading to increased to increased turnover and job creation.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Optrical Ltd	Efficient LED/ OLED lighting using innovative micro-optics	£97,464	£68,225
Project description - provided by applicants			
The 1st generation of LED lights consist of the functional replacement of traditional technologies with LEDs, with little emphasis on the efficiency or even the aesthetics. As a consequent the optical output of LED illumination systems (panels in particular), is 'whatever it is' and no attempt is made to control the beam profile in any commerical LED/ OLED illumination systems sold in market today. Optrical Limited wishes to challenge the status quo by developing custom, low-cost light management™ solutions to tailor the illumination profile of LED/ OLED panels and tube lights by placing light where it is needed using cleverly designed optical structures. Resulting brightness enhancement of 25 to 60% (depending upon the design and desired illumination profile) can be used to reduce the number of LEDs and the power consumption of the fixture for the life. A 25% improvement translates to- not having to build 3 to 4 fewer power plants of 500 MW capacity in UK alone, in addition to the significant saving in the electricity bills for the households or businesses! In the proposed project, Optrical aims to design and develop functional prototypes of a set of panels & tube lights tailored for different beam outputs. Significant long term business opportunity for us would be in manufacturing and direct sales of such innovative products to OEMs, subcontract manufacturers and parts suppliers generating significant economic benefits for Optrical (a majority of which from international export) as well as the UK economy in general.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Aria Networks Ltd	Dynamic Optimisation for automated real time provisioning of Cloud based and Wide Area Networks (DO)	£894,150	£402,368

Project description - provided by applicants

The growth in network traffic and data consumption is unprecedented, driven by tablets, smart phones, video streaming, and new services, the 'Internet of Things,' machine-to-machine, E-Health, and Smart Cities.Technologies such as 5G will increase capacity, however for the first time in the telecommunications industry the current cost of investment is outstripping the current return on assets. Cisco estimated 3.9 billion internet users, with 24 billion (10b increase since 2014) networked devices by 2019. There is huge pressure on network providers to build networks with optimised capacity and quality of service to deliver an optimal ROI. This is driving a new approach to the operation and management of networks and datacentres. Software Defined Networking (SDN) and Network Function Virtualisation (NFV) are seen as solutions that will automate the environment taking seconds rather than 'manual operated' hours. Automation reduces the timeframes, but only when coupled with Optimisation will it deliver the required financial benefits. Aria's Dynamic Optimisation (DO) minimises the cost of service and maximizes the utilisation of capacity. An award winning 'DO' Ericsson /Viavi/Aria proof of concept (POC) has been developed. Artificial Intelligence was seen as the most viable and innovative solution to deliver the complexity of technical and financial objective in this dynamic environment. This project moves a concept to customer trial quality prototype that includes not only technical and financial optimisation, but also environmental, such as optimised power consumption or carbon footprint.

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Inventor-e Ltd	iVendNFC, Smartie, SmartAsset, SmartSafe and Smartie Campaign Wizard	£157,253	£100,000
Project description - provided by applicants			
iVendNFC, Smartie, SmartSafe and SmartAsset development combine to provide the worlds lowest cost but most versatile industrial vending and asset management and tracking solution for enterprise wide inventory management including van asset management. Smartie is a patent pending asset management tag combining NFC (Near Field Communication) and iBeacon/Eddystone technology. IVendNFC will be the first industrial cabinet to be accessed by a Smartphone through the SmartSafe app. Consumables, spares and assets can be issued and returned to iVendNFC with job number charge capture. iVendNFC (patent pending) has significant benefits to the current state of the art helix machines and asset locker systems. Items can be returned, and iVendNFC removes all non value added activities; the requirement to repack to ensure less jamming and restocking products is completed in a fraction of the time. With SmartSafe and Smartie, assets can be managed inside and outside iVendNFC and vans. The iBeacon in Smartie allows the tracking of assets with the bluetooth network of a phone up to 50 metres away - no more lost tools. The NFC (Near Field Communication) allows a user to address the asset locally, upload and download information on the assets history showing a full audit trail with photographs, warranty, technical information and inspection reports. Assets can also be environmentally monitored with the sensors in Smartie; temperature, pressure, humidity and movement. Smartie can be used to prevent white finger, recording the hours of use of power tools to specific users.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
3D Metal Printing Ltd University of Bath Royal Devon and Exeter NHS Trust	ToKa - a personalised cost effective treatment for knee disease	£99,819	£69,866
Project description - provided by applicants			
The lifetime risk of knee osteoarthiritis is estimated to be as high as 45% (most common muscoloskeletal disease in the world). The current main standard of care for end-stage knee OA is joint replacement, effective for older patients but incurs a high cost to the healthcare system. For younger patients (40 to 65 yrs.) the risk of knee replacement failure is significantly higher than for older patients. By comparison High Tibial Osteotomy (HTO) can be considered as ideal in a younger demographic, particularly those individuals with greater activity demand. The technique preserves the native joint by re-aligning the tibia using a stabilising plate; potentially allowing more intense use in athletics or high impact activities (Smith 2015). However, current market solutions present several complications related to the generic nature of the plate and concerns of orthopaedic surgeons regarding the reproducibility of the surgery and costs. Our procedure ToKa® overcomes these problems by providing a patient specific plate which significantly reduces potential soft tissue damage, overall surgical times and is more cost effective. The project seeks to validate the approach and build an evidence pack in collaboration with the Royal Devon and Exeter Hospital, the NHS SW Innovation Trust and leading surgeons to demonstrate the safety and efficacy of ToKa enabling a full scale clinical trial to be undertaken. This will bring the product into market more quickly allowing patients to enhance wellbeing and quality of life. By reducing the procedure complexity the societal financial benefit could significantly impact NHS budgets.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Willingsford Ltd	Novel drying method for advanced materials	£99,988	£44,995
Project description - provided by applicants			
Acapsil is a CE-marked novel first-in-class advanced biomaterial, which has demonstrated effects in wound care. Annually in the UK, 2.2 mill wounds require treatment causing direct costs to the NHS of £5.3 bn. Acapsil accelerates wound healing by 60% and reduces bed-days by 31% for hospital in-patients with acute and chronic wounds and ulcers. Estimates indicate that Acapsil can reduce the costs of wound care by 25-30%. Acapsil is patented in all major markets world-wide. The properties of Acapsil are to a high degree determined by the manufacturing process and currently a single step in the process is preventing large-scale manufacturing. Considerable research has been dedicated to solving this problem and a solution has been found which has been tested and demonstrated to work in a small pilot model. The purpose of this project is to build a full-scale prototype model to reach a final design that can form the basis for a manufacturing line for Acapsil. Without this, it will not be possible to produce Acapsil to cover the medical need. This will mean lost opportunity to help patients with debilitating wounds and loss of important export and job opportunites to the UK.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
TRC Engineering Ltd	Novel injection moulding process to achieve 50% cycle time saving & 100% increased productivity-Coldmould	£98,222	£68,755

Project description - provided by applicants

Injection moulding is a major global industry, with around 8000 companies across Europe employing tens of thousands of people; many of these companies are small and medium sized enterprises. Injection moulded plastics are used in production of complex and intricate shaped parts for precision with least waste. However, according to AMI Consulting (reported in Jan 2015), Western Europe has seen the closure of more than 27% of its moulding sites since 2005 due to poor global economic conditions. Although the value of the industry has been slowly recovering and is expected to be worth a global £111bn by 2020 (Allied Market Research, 2016), AMI's analysis suggests that overall the number of moulding sites in Europe will be further reduced by another 2% by 2018 as moulders continue to struggle against a number of problems, particularly 'original equipment manufacturer' price pressures. Our aim to meet this global problem is to develop our novel injection moulding solution, which will aim to: • Reduce cycle time by 50%; • Reduce energy usage by 33% through reduced heating/cooling – equates to £1.2mpa for 250 machines; reducing CO2 emissions by 5.25 ktpa; • Increase machine productivity by 100% - increasing user revenue by £230k per annum per machine; increasing total output value to users by £142mpa and benefitting between 100-250 different enterprises; • Rapid payback of 2 months with substantial long term ROI for users of 600% p.a; • Create 25 new jobs at TRC Engineering based on 1 new position for every £150k revenue increase; • Create over 1000 new jobs for all licensees of Cold Mould

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Liquid Bronze Ltd	Malinko Intelligent Scheduling System (MISS)	£541,501	£243,675
Project description - provided by applicants			
UK health/social care has unprecedented challenges: spending cuts & rising demand, e.g. the NHS is targeted for £22bn efficiency savings by 2020/21. A key area for this is increasing out-of-hospital care and community nursing is vital to this, but issues include a lack of clinical time, routinely working excess hours, poor admin/ICT support. Providing care effectively & efficiently is a dilemma, intelligent scheduling is key: the right nurses must be allocated & sufficient time to deliver the care required, at economically viable rates. Despite this & recommendations for community nursing teams to adopt tailored scheduling tools, many still rely on manual paper-based systems, causing: inability to identify where demand exceeds supply/to influence demand & predict activity, inconsistent workload across services, silo working & inappropriate skill use. This project is to develop Malinko Intelligent Scheduling Software so it is dynamic, flexible & highly configurable to process specific community care factors & disruptive events, for optimal community healthcare scheduling. This will enable intelligent scheduling & reductions in scheduling time, central office visits, travel & Did Not Attends (DNAs), thereby generating significant social, economic & environmental benefits.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Diagnostics for the Real World (Europe) Ltd	SAMBA data tracking Dashboard application for site monitoring of HIV test and treat programmes in Africa	£96,250	£67,375

Project description - provided by applicants

Diagnostics for the Real World (DRW) is marketing a simple, robust point-of-care nucleic acid diagnostic platform, called SAMBA, which allows complex, high-performance tests to be carried out in remote, resource-limited settings in developing countries and primary care settings in developed countries. The first SAMBA tests are for HIV and will be used to monitor HIV treatment in adults and infants: one to measure HIV viral load and one to detect HIV in infants. HIV treatment programs are critical in Africa to reduce the mortality and social burden of HIV there. Due to WHO recommendation and international aid funding for viral load monitoring and early infant diagnosis in sub-Saharan Africa, $470 million will be available between 2017-2019 for HIV diagnostic procurement. To help African Ministries of Health and organisations such as MÃ©decins Sans FrontiÃ¨res to monitor their HIV treatment programs, DRW is proposing to develop an innovative cloud'•computer-based application (App) or Dashboard'•that would send results to a central location and give organisation the ability to analyse the data and track it for the purpose of monitoring and tracking results to help HIV treatment programs to be more effective. The system would ideally be used with SAMBA, but could be developed to allow patient results from any system to be imported into the database.

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Sphere Fluidics Ltd Horizon Discovery Ltd University of Edinburgh	Disrupting the global market for high value, gene-edited cell products and services with microfluidic technology	£999,381	£754,544

Project description - provided by applicants

Genetic engineering (GE) is an established tool for R&D and promises to become a globally used approach to correct and treat important diseases, such as cancer and genetic disease, and also able to tackle and solve important environmental issues. Current approaches are dependent upon manual labour and extensive screening, and are highly inefficient and time-consuming. CRISPR/Cas9 technology, a powerful new form of GE, has now triggered a step-change in the range, precision and efficiency with which genomes can be edited. However, production and screening of gene-edited cell lines remains inefficient. New methods that automate and reduce costs and handling time for the generation and recovery of edited cells would be highly welcome. Our project synergises stem cell biology and cellular genetics expertise (from Horizon Discovery and University of Edinburgh) with novel, single-cell manipulation and microfluidic expertise (from Sphere Fluidics Limited). Both Sphere Fluidics and Horizon Discovery have a track record in bringing valuable products and services to the R&D community. This world-class team will develop and validate a new microfluidic-based device for GE, that enables production of high quality engineered cells in a more rapid, efficient and less costly way. This project will support the development of a new benchtop device that will accelerate medical research and improve production of valuable products such as new therapeutics, foods or fuel sources. It will enable innovation and generate a significant return on investment (>200-fold) and provide major commercial potential for the partners, giving them a global lead in this area and creating new jobs.

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Coomtech Ltd	Development of a continuous Ohmic heating to enable low cost & efficient drying of the low rank coals	£649,680	£292,356
Project description - provided by applicants			
Coal generation provides 41% of electricity globally now & is forecast to drop to 34% by 2050. However, the ever increasing demand for electricity still demands over 2440 new coal plants to be build & a rise in coal usage from the current 8b tons to 15b tons (IEA & Global Coal) As global demand for coal is rising, availability of high rank coal(HRC) is declining; energy generators are forced to useLRC which are problematic due to high internal & external moisture contents (>50%) causing increased transportation costs, reactivity during transportation, higher fuel consumption per unit of output & inefficient burning causing increased CO2, SOx & NOx emissions. Buring LRC instead of HRC will increase the coal related emissions by ~8 b tons by 2030. Moreover LRC use has a deteriorating affect on the plant efficiency & life in service. With a very limited availibility of HRC, there is a need of a drying technology which can reduce the moisture contents of the LRC to make it comparable in quality to HRC. We, Coomtech Ltd, are developing a 2 stage (Internal Moisture Removal- IMR & Surface Moisture Removal- SMR) LRC drying technology CoomCoal'• with a global UK export market opportunity to decrease the LRC moisture contents by 70%, increase its CV by 60% & reduce CO2 emissions by up to 15% per ton of LRC burnt. Other benefits include low OPEX & CAPEX, lowering spontaneous combustion during storage & transportation, improved haulage economics, & low post treatment moisture re-absorption.We have already proven CoomCoal through an internal PoC & through this project aim to develop 2t/hr IMR prototype unit.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Circa Sustainable Chemicals Ltd	Green Aprotic Solvent	£120,755	£84,528
Project description - provided by applicants			
Green Chemistry focuses on replacing hazardous chemicals with benign alternatives, lowering the risk to the environment and human health. Bio-based chemicals seek to replace current chemicals derived from petrochemicals with chemicals produced from renewable biomass. Policies such as REACH (Registration Evaluation and Authorisation of Chemicals) ensure a high level of protection of human health by restricting use of dangerous substances and in some cases, banning them altogether. REACH and other legislation could make the use of several aprotic solvents difficult or impossible to use in developed nations. Circa Sustainable Chemicals is developing a greener solvent that can be produced at commercial levels.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
CheckRecipient Ltd	Artificial intelligence methods for enterprise data loss prevention (DLP)	£450,579	£247,449
Project description - provided by applicants			
The world's technological capacity to store information has exploded over the past 30 years to the equivalent of 4,500 stacks of printed books reaching from the earth to the sun. With the advent of internet related communications such as email, messaging, and online file storage, information security presents a completely new set of challenges - 76% of IT practitioners say their organisation experienced the loss or theft of company data over the past two years. Data Loss Prevention (DLP) tools are the answer. They aim to prevent the leakage of sensitive information via either accidental human error or malicious employee behaviour. Our company have developed CheckRecipient, the world's first software platform to detect when emails are being sent to the wrong people, which is now in use with world-leading companies in the legal and financial industry. Our current software uses machine learning and artificial intelligence to analyse email data to classify the sensitivity of the data and the kind of recipients associated with this information. This is used to warn users about potential email related data loss before it happens. This project builds on our early technology and expertise to develop the world's first fully-automated DLP platform to classify and protect all of an enterprises information from all potential forms of data leakage.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Air Quality Research Ltd	A novel cost-effective energy-saving alternative to sterilisation of fluids in the dairy industry	£84,048	£58,834
Project description - provided by applicants			
Air Quality Research Ltd has identified a clear need for a cost-effective energy-saving alternative to Ultra-High Temperature [UHT] processing in the dairy industry. The dairy industry is dominated by just a few large producers and processors while smaller-scale players are locked out of the supply chain, which is heavily reliant on refrigerated transportation (the 'Chill Chain') and energy-intensive operational treatment costs. The project is concerned with confirming the technical feasibility for a viable alternative to UHT milk sterilisation, using an energy-saving novel advanced oxidation process. Air Quality Research Ltd (AQR) has identified a clear market need for a cost-effective solution that enables both small and large-scale milk processing using either mains power or renewable energy. The AQR technology provides milk producers with the ability to process their milk at the farm, bringing the supply chain back to the local community and improving farmers' profitability for milk production. Farmers in rural regions in i.e. India and China will be able to process their milk effectively and sell safe, fresh milk directly to consumers, strengthening poorer communities and contributing to improved nutrition and health. The project will lead to a full scale industry trial towards commercialisation of this novel sterilisation process and contribute to strengthening the UK's manufacturing export sector.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Ultromex Ltd	RECYCLING SPL REFRACTORY FOR COMMERCIAL USE.	£423,207	£296,245
Project description - provided by applicants			
The safe disposal of Spent Pot Linings (SPLs), the waste material generated in the de-lining of steel containers following the aluminium (AL) smelting electrolysis process, is a major environmental challenge as highly toxic & hazardous substances are absorbed into the cell lining (made up of carbon & refractory (ceramic) layers) in the process - making disposal extremely hazardous & expensive. Existing SPL disposal techs (e.g. Macro encapsulation, vitrification), do not look to recover metals or other valuable materials, but simply treat the material to reduce toxicity for landfill disposal. Ultromex have successfully completed PoC work around a novel treatment process which successfully makes the carbon layer from a SPL inert with the potential to re-use in other applications (e.g. new anodes). In order to develop a complete viable solution, Ultromex now seek to complete a 12 month Industrial Research project to investigate the feasibility of treating & de-contaminating the two refractory layers, through the use of novel proprietary mechanical & chemical treatment processes, at a single location & prove they are able to separate all streams - producing inert refractory material (that can be used to make new brick for the cathode cell or used in a wide range of brick products for the construction industry) & inert carbon material (used as an addition for either anode or cathode production or as a high quality fuel). If successful, Ultromex will revolutionise the AL smelting industry by providing a viable closed loop process to a major challenge.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Curapel (Scotland) Ltd	DEVELOPING A SAFE, NUTRITIONAL SUPPLEMENT FOR CHILDREN WITH DRY SKIN & ECZEMA	£263,452	£184,416
Project description - provided by applicants			
Curapel® is a skin healthcare company that is developing patented products to help people with common, chronic and distressing skin conditions such as eczema and psoriasis. All Curapel's products contain natural and safe active ingredients which were identified by researchers at the the University of Manchester. The Curapel Philosophy is simple, we intend to develop successful products based on these technologies that work effectively with skin biology to 'Heal Skin Safely'. Eczema is one of the most common skin conditions that is six times more common in young children aged 1-5 years (~20%) than in adults (~3%). Unfortunately, current products for this distressing condition either just soothe the skin (emollients) or are medicines such as steroid creams that have extremely harsh side effects, especially when used by young children suffering from a chronic skin condition Curapel is now developing HISTIMEX as a safe, easy to use, once a day, oral nutritional supplement that provides a vital building block to restore a healthy skin barrier across the whole body. HISTIMEX has been tested in adults and has a similar effect as a middle-strength steroid cream but without any of the side effects. Curapel is now asking Innovate UK to help fund the testing of a new young child-friendly version of HISTIMEX in a clinical study in 1-5 year old children with eczema. When we have shown the effectiveness of this new children's HISTIMEX, we aim to launch it in 2017 as a safe product for young eczema sufferers.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Aquasium Technology Ltd TWI Ltd	PlasMan - High integrity manufacture	£281,444	£201,148
Project description - provided by applicants			
The turbo-charger market continues to grow at a CAGR of 10% as manufacturers design leaner and more fuel efficient engines. This project will boost sales of production equipment for this market, an important export market for Aquasium Technologies that will be worth £12m per year in 2022. The PlasMan project will examine the feasibility of adopting a novel plasma cathode electron beam welding technology for the production of turbo-chargers. The project will build and test a system and provide the necessary bridge to allow integration of the technology. The operational data collected will be used to quantify the benefits of adopting the technology and will be used to promote sales of the equipment against more conventional competitors, and emerging laser welding machines. We will also investigate and assess the potential for using the technology in new emerging markets of additive manufacturing, micro-machining and vacuum melting. The technical capability of being able to rapidly pulse the electron beam and much higher consistency output are particularly suited to these markets.			

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Innovate UK

Results of Competition: **Open under 12 months and under £100k**
Competition Code: **1606_SC_Open_R1**

Total available funding is £13m (for all projects up to 12 months including Market Research)

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
Graystone Wearable Tech Ltd	Wearable charging holster to extend rail staff mobile device battery life.	£98,965	£69,276
Project description - provided by applicants			
Many field based service sectors such as rail, police forces, healthcare and security providers employ large numbers of field-based Staff. These employees are highly dependent on mobile devices to communicate, obtain information and perform their duties effectively, and they are finding that their smartphone devices do not last an average working shift. This creates a tangible operational problem to these businesses and there is a clear demand for a solution that current battery charging products do not fully provide. Graystone Wearable Tech Ltd are developing a wearable, automatic wireless charging holster that addresses this need. The device has a number of differentiating features including an integrated wearable leather enclosure, a unique proximity based automatic charging trigger technology and USB charging a second device. Initial target customers will be UK train operating companies and subsequent opportunites exist in global rail markets as well as other sectors mentioned previously. Self-funded work to develop early prototypes has proven the feasibility of the concept and the proposed project will build on this to develop a prototype robust enough for testing in a rail operational environment, confirm that the unit design solves the business problem and that the units are reliable and ergonomic. If successful the project will enable us to attract the investment needed for the development of a full commercial version, as well as to develop the business capability to support a full route to market.			

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Innovate UK

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Competition Code: **1606_SC_Open_R1**

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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
Wevolver Ltd	Feasibility of a novel collaborative platform for hardware project development	£99,744	£69,821
Project description - provided by applicants			
As the development process continues to grow faster, more decentralised, collaborative & open, Wevolver is positioned to become its central platform, much as Github.com is the central hub in software. This project will enable Wevolver to bring innovative, new functionalities to its award-winning platform, positioning it at the forefront of online collaborative software tools for project lifecycle management.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Mikota Ltd	Feasibility study on a non-mammalian marine collagen which has similar properties to mammalian collagen.	£91,825	£64,278
Project description - provided by applicants			
Mikota Ltd is a startup in the high value niche market of novel biomaterials from the marine environment. This project is for a feasibility study into a new and novel non-mammalian marine collagen which is thermally stable in its native form, in line with bovine collagen, the gold standard for biomaterials. This will be a product that, from early indications, has all the benefits of bovine collagen with the added advantage of being non-mammalian. The biomaterials market has actively demanded and pursued non-mammalian alternatives in the collagen range, such as fish collagen, but the present technologies have fallen short on a critical deliverable, which is thermal stability. The project will include early stage technical feasibility work undertaken by our industry partner, Collagen Solutions plc, and includes market analysis and customer questionnaire work being done by Mikota Ltd in conjunction with Collagen Solutions and select potential customers and agents.		

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Brackenmore Ltd Cellular Systems (Grantham) Ltd Roboscientific Ltd	Poultry Gut Health	£99,507	£69,656
Project description - provided by applicants			
This project is designed to test the feasibility of using e-nose technology as a real time monitoring tool for changes in poultry Gastro-Intestinal Tract (GIT) microflora, specifically Clostridium Perfringens (CP) - the causative bacterium of Necrotic Enteritis (NE). NE can have a dramatic impact on poultry growth and mortality, compromising both animal welfare and profitability. Currently diagnosis is complex and requires the monitoring of a wide range of parameters, often arriving too late to allow effective intervention. The development of e-nose technology to specifically detect CP would allow the easy, inexpensive, and real time monitoring of CP - providing the opportunity for early treatment with preventative medicine such as Probiotics/Prebiotics, allowing stabilisation of the gut before the onset of NE and avoiding the use of unnecessary prophylactic antibiotics. This would lead to improved animal welfare, reduced mortality, lower & targeted use of antibiotics, improved feed conversion, greater productivity, and higher profits to the grower.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Petticrows Ltd	Experimental development of a wood veneer encapsulated GRP process for the application of racing boats	£99,252	£44,663

Project description - provided by applicants

The overall objective of the project is to perfect a system for encapsulating a wood veneer into a glass fibre moulding for the application of racing boats. Many boat owners desire boats that have an aesthetically pleasing authentic wooden finish, which are still suitable for racing. However, in the recent years wooden boats sales have fallen due to their significant expense and slow production time due to the labour intensive building methods used, and time consuming and expensive annual maintenance of finishing the boats. There is a business opportunity for us to offer a Glass Reinforced Plastic (GRP) protected, infused wood veneer boat, which would have the benefits of a modern GRP manufactured process combined with the traditional look of a wooden finish. The advantages to the boat purchaser include a great looking wooden'•boat which is attractive to the traditional buyers at a competitive price with lower maintenance costs. It would also help open up the market to non-competitive sailors. The return on investment for this Experimental Development project cost is 200% over 5 years, helping grow our sales 50% above current levels and maintaining or even increasing our current level of exports from 80% by year 5 post commercialisation.

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Koru Kids Ltd	Industrial research into an Instrument to create Trust in Collaborative Childcare	£50,140	£35,098
Project description - provided by applicants			
Koru Kids brings the sharing economy to childcare, by making it much easier for parents to share nannies. Sharing nannies solves the problem faced by increasing numbers of parents who work part time or 'awkward' hours which traditional childcare fails to cover. Plus it's great for the children, who get a friend to play with, and it gives the nanny increased income. Most significantly, it makes great childcare more financially accessible for families. This allows women to go back to work; children to thrive; and families to stay solvent. Koru Kids' proposal is for a research study to create a Parenting Barometer, an instrument to measure parenting style, which helps create trust between families online -- the key thing needed in order for nanny share to occur. This is innovative in childcare and throughout the sharing economy. If feasible, it will not only help with Koru Kids family matching process but will also contribute to broader understanding of how to create trust online, which is a key feature of the 'sharing economy'. We sought funding for this project of £35,098. Return on investment for the project will be x10 over 2 years in terms of Koru Kids™ business -- plus even larger productivity gains for the UK economy as parents are helped to go back to work.The technology developed will be deployed first in London, then abroad; this will be a UK-based global tech company.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Seaview Sensing Ltd Neptune Radar Ltd University of Swansea	Towards the next generation oceanographic HF radar	£97,359	£62,287
Project description - provided by applicants			
High Frequency (HF) oceanographic radars can measure currents, waves and winds at the surface of the coastal ocean to ranges of up to 200km from the coast. They have many potential applications e.g. for search and rescue, port and harbour management, coastal erosion modelling and management, marine renewables, offshore oil, gas and wind farm operations, ship routing, leisure boating, tsunami detection, water quality and coastal development, marine ecology. German and US radars are found around many of the coasts of the world providing surface current measurements for many of these applications. The UK has an under-exploited world class technology base in this field, this project could provide the impetus to grow UK business and turn this knowledge into a source of export revenue. This project is part of our plan to develop the next generation of these radars that will be both cheaper, and hence more competitive in this small niche market, and will provide more reliable wave measurements and thus meet the needs of marine renewable and offshore oil and gas installations, Met Offices and/or other government organisations who provide routine wave forecasts for shipping and leisure activities. This project focuses mainly on the reliability of the wave measurements with research on a new idea to exploit the fact that different radar operating frequencies have different responses to wave conditions.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Encorra Ltd	Feasibility studies of compact cold set corrugator machine	£76,500	£53,550
Project description - provided by applicants			
Our project is the testing of the demonstrator model of our cold set corrugator machine, which will make corrugated board for the packaging industry. This revolutionary machine: * is a fraction of the size of a conventional corrugator * radically reduces the amount of energy needed to produce corrugated packaging, both in making and transporting the board * costs approximately one-sixteenth the price of the conventional machine * has been developed over the past eight years; two successful prototypes have been built * is fully compatible with the admirable recycling record of corrugated board, which is almost 80% made from recycled fibres, and of which over 80% will in turn be recycled * gives end users of corrugated packaging a cost saving of approximately 38% * enables end users to produce their own bespoke corrugated packaging in house and on demand - an impossibility at present * saves road miles, wastage and storage space		

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
We Are Colony Ltd	Colony: developing a next generation video player	£918,998	£413,549
Project description - provided by applicants			
We Are Colony will develop a next generation video player™ aiming to redefine the way audiences engage with video content, with immediate applications in the film and wider audiovisual industries, and potential to drive significant future impacts in the video advertising industry. The result will be the first real-time, intelligent and responsive to behaviour curated viewing experience of film and extras. The combination of API development, algorithm development, video player development, behavioural tracking and interpretation, analytics tracking and user-experience design - delivered by proven subject matter experts - will provide for wide commercial application.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Metail Ltd	Quibbler	£99,869	£69,908
Project description - provided by applicants			
Virtual try-on has been a hot topic in online fashion retail for some time, and Metail's patented technology enables consumers to visualise garments on their own accurate body model using products that deliver more engaging experiences and better information for their purchases, which in turn helps to increase sales and reduce returns for retailers. Until now, creating compelling virtual try-on for real garments has involved either building digital models from cutting patterns and material specifications, or else carefully controlled photographs of the manufactured garment. Both of these approaches suffer from supply chain and scalability challenges. Quibbler aims to address the above challenges and demands in scalability. In the project, we will create a proof of concept demonstrator for a new fully-automated and near-zero-cost garment digitization solution using the state-of-the-art computer vision and deep learning technologies. If successful this will help significantly accelerate Metail's growth by boosting garment coverage and user base, enabling scope for working with a wide range retailer partners. Scientifically, Quibbler will represent a good challenge for Metail's garment modelling and computer vision expertise built up over 8 years of R&D.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Matrix Magnets Ltd	Novel Low-Maintenance Cryogenics for New Analytic Instrument	£110,875	£70,000
Project description - provided by applicants			
There is a great need for analytic instrumentation suitable for applications in pharmaceutical and pathology labs. The aim of this project is to develop cooling technology that reduces the footprint, operating costs and maintenance of a novel instrument by building and evaluating a demonstrator. The project will entail developing a novel product and working closely with a UK supplier seeking to diversify its business. The future product will facilitate advances in medicine, but the main focus of the project is the engineering innovation. Existing comparable instruments contain a large bath of liquid helium which requires refilling and they occupy lots of space. Instead, our system uses a device that eliminates cryogen refills and lowers the overall cost. But significant development of the technology is required in order to use it on the new instrument. The new product will allow us to grow turnover substantially over 5 years. It will allow us to enter a major market for analytic instrumentation, with a significant fraction addressable to us. New significant markets are also likely to open in other sectors.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Natural Resources (2000) Ltd	Pulp Fibre Capping and Closure Solution for Pulp Fibre Bottles	£149,064	£104,345
Project description - provided by applicants			
This project will undertake research into the development of a prototype recyclable, biodegradable packaging solution which provides an alternative to plastic packaging. Focus initially will be on replacement of PET in containers with moulded paper pulp. The project builds on considerable research work to date that has established a solution for the manufacture of containers and for their coating in order to hold liquids. To be commercially viable, the whole product needs to be recyclable/compostable, hence effort is required to establish a sustainable closure solution and associated manufacturing process that can meet the production volume, product accuracy and quality standards required by the FMCG sector at a comparable cost. NRL will work throughout the project with key industry stakeholders to ensure a market acceptable solution is devised.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Eureco Technologies Ltd	Feasibility studies on the eureco® EM-bridge™	£99,783	£69,484
Project description - provided by applicants			
Eureco Technologies Ltd has filed UK and international patent applications for a disruptive and enabling technology, named the eureco® EM-bridge, which eliminates coaxial cable and related issues in applications where relative movement is required between component parts of a radio frequency (RF) assembly. For example, in low frequency satellite telecommunications (UHF Satcom) and in P-band synthetic aperture radar (SAR) Earth observation missions, the novel technology aims to ease the deployment of large direct radiating array (DRA) antennas, improve their efficiency and bring user-benefits to space missions. Project activities will include modeling and simulation of the eureco® EM-bridge, the characterisation of the RF and mechanical beviour of the new technology when embodied in a variety of structures that target different applications. The Technology Readiness Level (TRL) of the invention will be raised to TRL4 by validation of breadboards in a laboratory environment, which is important progress along the path towards its acceptance by the space industry. The project is a stepping stone towards strengthening the scientific understanding of the invention before transforming the innovation into a range of products that will exploit the unique features and benefits of the eureco® EM-bridge in the space market and terrestrial applications, e.g. industrial processing. Eureco Technologies Ltd plans to deliver flight hardware products to satisfy a demand for a modular row-fed antenna architecture within a period of 5 years and to achieve a sustainable growth rate.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Anidium Ltd	Personal health monitoring device	£94,660	£66,262
Project description - provided by applicants			
The project aims to access the feasiblity of providing a personal health monitoring system that delivers the most optimal combination of ease of use and low cost to facilitate the early screening of cardiovasclar conditions.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Clarity Biosolutions Ltd	Development of an affordable human diagnostic for active TB suitable for the UK and for India and other low resource markets	£210,664	£147,465
Project description - provided by applicants			
Tuberculosis (TB) is a persistent health problem in the UK and worldwide. There has been a steady increase of TB rates in the UK over the last three decades, with the disease burden now one of the highest in Europe. In 2013 the WHO reported that in India in 2012 2.8M active TB cases were diagnosed, with an estimate of 25.2M individuals with presumptive TB, suggesting a diagnosis success rate'•of only 1 in 9. This application is to fund an industry-led, industrial research project to develop an affordable new TB diagnostic with the aim of increasing this diagnostic success rate in the four highest burden TB countries, which account for nearly half of all TB cases detected globally each year. The project combines innovation from Public Health England (PHE) research into the development of a powerful set of TB diagnostic blood biomarkers together with low cost lateral flow technology that will address the worldwide need for a low-cost screening tool for active TB and pave the way for further development of the PHE biomarkers for other forms of the disease, enabling better disease treatment and containment.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Ionix Advanced Technologies Ltd Doosan Babcock Ltd	Direct-bonding of piezoelectric transducers for high temperature structural health monitoring	£99,984	£67,900
Project description - provided by applicants			
In this project, Ionix Advanced Technologies and Doosan Babcock will test the feasibility of manufacturing a new type of sensor for monitoring the integrity of high temperature plant found in power stations and the oil & gas industry. The new sensor design requires a unique piezoelectric ceramic material to be bonded directly to the steel of the vessel or pipe to be monitored. As current methods for bonding the ceramic to steel are unsatisfactory, the project will investigate 3 new manufacturing methods. The new sensors enabled by this process will allow continuous monitoring and detection of corrosion and cracks in operational plant without the need to shutdown the plant on which they are deployed. This will simultaneously improve safety and reliability whilst reducing costs to the operator and consumers.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Vision Triteq Ltd	TriTeQ³ : Development of a modular stereoscopic viewing apparatus	£938,773	£563,264
Project description - provided by applicants			
Creating and using high resolution 3D content is ever increasing, whether in medical imaging, architecture or Computer Aided Design. Yet such images can only be displayed on standard 2D screens, or on 3D technology which has inherent limitations such as poor resolution, user discomfort or needs specialist eyewear. There is a proven technological gap to be bridged between standard screens used every day and screens that can convey convincing, high resolution 3D depth perception. Vision Engineering Ltd (VE), a global leading-edge manufacturer of stereo microscopes and non-contact measuring systems proposes to develop a 3D viewer TriTeQÂ³ that does not have these inherent limitations or require specialist eyewear, a so-far unsurmountable challenge with huge commercial potential.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
FGV Cambridge Nanosystems Ltd University of Cambridge	FIREne: Flame InhibitoR Enabled by graphENE	£99,933	£64,938
Project description - provided by applicants			
The FIREne feasibility study will investigate the flame retardant performance of graphene-based coatings patented by FGV Cambridge Nanosystems Ltd in industry-standard fire tests for building components. Collaboration between CNS and researchers from the University of Cambridge's Centre for Natural Material Innovation will optimise the coating for flame retardancy in collaboration with the BRE Centre for Fire Safety Engineering at the University of Edinburgh. In practice, the coating will provide an alternative to conventional intumescent coatings (used as benchmark), which expand with heat and insulate the wood from elevated temperatures.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Electrosciences Ltd	Piezo Film Toolset	£81,422	£56,995
Project description - provided by applicants			
In the development of novel sensors, actuators and transducers, accurate materials property evaluation is key to shortening the time taken between materials science & prototype development. In this project Electrosciences will develop a new measurement tool for inline quality assurance evaluation of the performance of novel piezoelectric polymers. These films are being considered for next generation 3D touch sensitive screens for mobile phones, tablets and other screen input device as well as higher sensitivity ultrasonic imaging and hydrophone/sonar sensitivity applications. The innovation lies at the heart of the sensor and relates the charge developed by the smart film when it is excited by a mechanical stimulus provided by the sensor system. Digital calibration of the low cost device provides for highly accurate and reliable test and evaluation, enabling end users and reel to reel processors to save many hundreds of thousands of pounds in offline benchtop testing of their materials development cycle. Electrosciences Ltd will continue to develop other novel instrumentation as it builds its UK capabilities, and overseas markets.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Scorpion Tooling UK Ltd Renishaw PLC University of Bath	START - Subtractive Technologies for Additively Realised Test-parts Manufactured Parts	£96,918	£72,278
Project description - provided by applicants			
Metal cutting, whilst being one of the oldest industries is still a major contributor to the UK's strong manufacturing base, particular in the aerospace and medical sectors. With the growth in additive manufacturing (AM) and 3D printing and the ability to competently print metallic alloys, there is now a step change in how components are being created. AM enables near-net part to be manufactured, but additional post processing via CNC machining is necessity to manufacture functional parts with engineering quality. This exciting and timely project in conjunction with Scorpion Tooling, Renishaw Plc and University of Bath will address these challenges of machining additive titanium and nickel based parts and issues by creating a robust and scientifically driven rationale that will devise and test a range of specific cutting tool geometries to enable more efficient and less detrimental finish machining of additively produced metal components. This will enable manufacturers to better leverage the capabilities of AM within their businesses impacting directly on improved quality.			

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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
Transfaction Ltd	PUADO Dynamism	£96,661	£67,663
Project description - provided by applicants			
Our proposal is to transform the £75 billion road haulage & distribution industry in much the same way as Uber is transforming the taxi industry. Like the taxi industry was, the haulage industry is characterised by surprisingly low levels of vehicle utilisation, (approximately one third of the 3.8 million vehicles are empty at any one time), high prices, and variable standards of quality. Uber has developed algorithms to drive new levels of productivity. Today predictive fare matching, timed bookings, tiered and surge pricing, and "gig working" drivers result in a London UberX 1mile fare being 36.7% lower than the equivalent black cab. The road freight industry has the same productivity and pricing opportunities. However, it needs a new breed of algorithms, and techniques to overcome the complexities of planning, and the perception of providers of logistics & transport that their ability to make further improvements in productivity are limited. However, prior research by the University of York has indicated that cutting edge fast algorithms could deliver superior results to this complex industry. Indeed some of their research indicates that road freight journeys could be reduced by 20% which could take 700,000 vehicles off the road.			

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Innovate UK

Results of Competition: **Open under 12 months and under £100k**
Competition Code: **1606_SC_Open_R1**

Total available funding is £13m (for all projects up to 12 months including Market Research)

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
Smart-Ventilation Ltd	Smart-Vent intelligent residential ventilation system	£86,846	£60,792
Project description - provided by applicants			
The company is developing a residential ventilation product that provides an intelligent means to control indoor air quality. Driven by energy and CO2 reduction legislation homes are becoming more airtight with a consequence of reducing airflow causing poor indoor air quality which impacts on occupant health, and creates condensation problems which damages a home and its contents. The project will enable prototypes to be built and tested in occupied homes and remotely monitored using the cloud connection. The product has future commercial potential in UK, EU and global markets and sales to these markets will create a sustainable business, and revenue will provide future product development and job creation.			

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Innovate UK

Results of Competition: Open under 12 months and under £100k
Competition Code: 1606_SC_Open_R1

Total available funding is £13m (for all projects up to 12 months including Market Research)

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
PIT Products Ltd	Development of an innovative respiratory training device	£52,674	£32,536
Project description - provided by applicants			
The company is developing an innovative respiratory training device which will increase the difficulty, and therefore impact, of the end user's existing exercise routine. It is achieved by restricting the airflow available to the user. The advantage of using a device to restrict airflow during exercise is that the reduction in available airflow has certain physiological benefits on the user's fitness and athletic performance. To date the company has developed an innovative product design through a collaboration with a leading UK University and research organisation. This product design improves on the current state-of-the-art respiratory training devices. The project will further develop this through planned research, product design, prototyping, scientific laboratory testing, focus groups and compliance / safety testing. The outcomes of the project will be the validation of the technology used in the product and a final prototype. This prototype will be used to leverage external investment, such that the product and wider business can be launched in the UK and overseas. The design of the product is such that it can be used in conjunction with a range of sports and exercise routines. Such a diverse product appeals to a large market of consumers, such as those who take part in running, cycling and many other sports and exercise activities.			

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Innovate UK

Results of Competition: **Open under 12 months and under £100k**
Competition Code: **1606_SC_Open_R1**

Total available funding is £13m (for all projects up to 12 months including Market Research)

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Crypta Labs Ltd	Enabling Quantum Random Number Generation on mobile devices	£112,802	£78,961
Project description - provided by applicants			
Data encryption relies on random numbers to encrypt/decrypt confidential communication. Most encryption processes are currently underpinned by pseudorandom numbers, which are vulnerable to hacking. Using the random properties of light (quantum), Crypta Labs is developing a random number generator for use on mobile devices, to provide an unhackable random number to encryption processes. This project is focused on the development of an Application Programming Interface (API), Software Development Kit (SDK) and integrated encryption processes to enable mobile phone applications (such as banking and health-related) to secure transactions with unhackable encryption. It involves proving that existing mobile phone hardware can be used to generate random numbers, determining the optimised working parameters of that hardware, and development of the API, SDK and encryption processes ready for use by the phone's apps.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Fluentic Networks Ltd	ubiCDN: a ubiquitous, user-based, mobile video distribution platform	£142,200	£99,400
Project description - provided by applicants			
An average smartphone or tablet has at least 10GBs of memory available. Very roughly, this corresponds to 2,000 mins of High Definition (HD) video, that is almost 1.5days worth of video content readily available (with memory chip sizes shrinking and prices falling sharply). For news applications, or short video clips, this means that the average mobile device is a small, always on, always connected and mobile data-centre. Fluentic is developing solutions to exploit the spare memory of a fraction of mobile users in order to disseminate content of popular smartphone applications (e.g., content providers such as BBC, Sky, iTV, The Guardian) to every device in the vicinity that has got the application installed. Content providers proactively push content to selected mobile users (the sources). Sources then disseminate content to other users that are interested in the same content (the destinations). Sources and destinations sync through our unique, information-centric connectivity software solutions. Sources and destinations pair when both devices have the same application installed and the source nodes have updated content to disseminate. Content distribution takes place in a Device-to-Device (D2D), Peer-to-Peer (P2P) manner, independently of the cellular connection. Therefore, challenged connectivity and data caps are not a barrier to the distribution of large volumes of data.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Perceptual Robotics Ltd University of Bristol	Autonomous Wind-turbine Infrastructure Inspection	£307,430	£242,769
Project description - provided by applicants			
Perceptual Robotics is working with the University of Bristol and industry partners to provide fully automated visual inspection of wind turbines using smart autonomous drone technology. One of the major concerns in investing in wind farm projects relates to maintaining turbine availability, which represents the risk of lower energy yields and lost production due to periods of turbine standstill and repair. Maintaining wind turbine reliability is essential for a wind farm to perform effectively and profitably. As a consequence with huge numbers of wind turbines worldwide (315,000+), frequent visual inspection is becoming ever more important. Current techniques using industrial rope access or piloted drones are costly, time-consuming and unable to deliver repeatable and consistent inspection. The aim of this project is to address these weaknesses by developing drone technology which is able to autonomously fulfil the entire inspection to reporting requirement, providing safe, robust, repeatable inspection, reducing costs and increasing trust and quality. Such an approach to inspections will contribute to reducing wind turbine down-time, deliver more affordable operational costs and improve the return on wind farm investment. The technology will include innovative algorithms in flight control and vision based defect detection, and will be developed within a platform independent architecture. It will yield a unique product with significant technology advantage over competitor systems and open up markets in the UK and overseas, further increasing UK expertise in renewable technology.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
ParcelVision Ltd	ParcelVision Retail	£835,672	£376,052
Project description - provided by applicants			
ParcelVision is a cloud based shipping platform that helps retailers and e-commerce providers reduce transportation costs and manage their logistics from the point of collection through to delivery. ParcelVision integrates with carriers, optimises the choice of carrier based on service and quality and cost, produces shipping labels and paperwork, pro-actively notifies of shipping events such as delivery failures or delays and automates the interactions between a retailer's customers and carriers, enabling their customers to self-serve™ improving customer satisfaction and reducing costs for the retailer. ParcelVision can help retailers reduce the cost of exporting by up to 80%. ParcelVision significantly reduces the barriers to companies wishing to export and revolutionises the way companies manage their logistics.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Oliver Crispin Robotics Ltd	Speedsnake - a robot for high speed aerostructure manufacturing	£145,715	£89,614
Project description - provided by applicants			
Speedsnake will be a new snake-arm robot from the established world-leader in the technology, OC Robotics. This project will enable the development of a new and innovative high-speed snake-arm robot for aviation manufacturing. Speedsnake will be used to carry process tooling for automation of manufacturing processes inside aircraft structures such as wings. The global aviation industry, including Airbus, Bombardier and others in the UK, needs automation to enable increased rates of production while improving quality and reducing cost, in order to meet demand for new aircraft. Speedsnake will be a robot capable of automating assembly inside confined spaces, increasing production rates and reducing the need for people to climb and crawl into confined spaces to assemble aircraft. Most applications for OC Robotics' snake-arm robots have been for slow, low-speed tasks such as inspecting and maintaining high-value assets like nuclear reactors and other expensive or delicate equipment. The Speedsnake robot will set new records for high-speed (x10), autonomous operation inside confined spaces, to meet the production rate challenges of the aviation industry.			

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Competition Code: 1606_SC_Open_R1

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Build Test Solutions Ltd University of Nottingham	Enclosure integrity testing of high tech critical environments	£93,760	£71,872

Project description - provided by applicants

The identified market is highly regulated with ISO 14644 and regulatory licencing and inspection regimes requiring air quality and leakage integrity to be closely monitored yet there is currently no solution that enables facilities to remain fully operational whilst such testing is carried out. Whilst we know that in principal PULSE can provide an effective and quantifiable solution to validate an enclosure's air tightness, work is required to undertake detailed market analysis followed by modelling and simulation work before then building a prototype and undertaking evaluation within a test facility operated by one of our collaboration partners, Pirbright Institute and VCCN. Whilst the driver in the built environment sector is energy saving, here it is about containment, quality control and continuity of science/manufacturing. Taking the PULSE technology to this sector will deliver on all these fronts, with the ability to test in a much more rapid and less disruptive way than is currently possible. This will reduce downtime of labs and production facilities, improving overall continuity and productivity. PULSE may also be fully integrated with existing HVAC/BMS systems, enabling continuous unmanned airtightness monitoring and alerting. We are applying existing tech in a new area - developing and testing a tailored PULSE system design for the proposed spaces. PULSE has only been applied in the construction sector to date but the concept is patented by UoN with BTS owning an exclusive licence and complete freedom to operate. An international FTO search has also been undertaken, with no other competing product on the market place. The increased level of air tightness means that PULSE would have to be revisited mathematically and experimentally, alongside exploring optimal combinations of physical components functional to the potential miniaturisation of the technology. An air leakage and system error reporting function will also be investigated as a potential added functionality. We seek resourcing under this call in order to allow us to evaluate the market feasibility, design and test a prototype and to develop a business plan for entering the specialist environments market. This wholly compliments our other activities.

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
UXLabs Ltd	Intelligent search assistance	£99,712	£69,798
Project description - provided by applicants			
According to the IDC whitepaper, The High Cost of Not Finding Information, knowledge workers spend 2.5 hours per day searching for information. Assuming they either find what they are looking for eventually or stop and end up making a non-optimal decision, there is a high cost to both outcomes. Indeed, this problem is particularly acute for knowledge-based professions. The healthcare industry, for example, relies on painstaking and meticulous searching of multiple literature sources as the foundation of the evidence-based approach to decision making. However, systematic literature reviews can take years to complete, and are often compromised by errors and inefficiencies in the search strategies they rely on. To address this problem, UXLabs is developing a radical alternative to traditional keyword search. We are creating a novel, visual framework which allows users to express complex information needs via a simple but powerful visual syntax. The aim of this project is to research and develop a knowledge-based approach to concept generation which can be integrated within our visual framework to deliver a solution which has the potential to profoundly change the way that information needs are expressed. By combining support for both optimal structure and optimal content we can improve their efficiency and effectiveness of search strategy formulation across a broad range of target markets.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
It's Fresh Ltd	Reducing global fresh produce waste by developing our innovative ethylene scavenger as a self-adhesive label	£99,665	£69,765

Project description - provided by applicants

Every year, 33% of all food produced globally is wasted or lost during production or consumption. In the UK alone, annual waste is 15 mt (worth over £19 bn) of which 75% could have been avoided. Across Europe 27% of all fruit & vegetables are lost or wasted between processing & consumption (FAO). Current UK food waste of 12 mt is associated with the production of 20 mt of greenhouse gas emissions. In addition, uneaten food occupies almost 1.4 billion hectares of land (~30% of the world's agricultural land) and around 550 billion m3 of water is wasted on a global scale from fruit & veg which are never consumed (FAO). As the EC expects food waste to climb from 90 mtpa to 126 mt by 2020, across Europe, there is clearly a need to develop new technologies which are capable of prolonging the life of perishable produce. One way of prolonging the life of fresh fruit & vegetable produce is through ethylene scavenging. Ethylene is a plant hormone responsible for premature ripening, salad wilting and colour loss. Our aim is to adapt our patented ethylene scavenging agent for use as a self-adhesive label to attach onto fruit packs/fruit punnets. It is envisaged the benefits of this new solution will be: Extend shelf life by at least 2 days; 50% reduction in fruit waste due to extended shelf life - reducing biowaste by 24 thousand tonnes per annum (ktpa) & reducing greenhouse gas emissions by 36 ktpa; potential to reduce this by up to 2.4 million tonnes; Completely safe for food application; Generate £57 million in revenue for users of the technology; Create a total of up to 660 jobs throughout the fresh produce industry

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Cambridge Respiratory Innovations Ltd	Tidal Breathing Research for Respiratory Disease Management	£310,852	£217,596

Project description - provided by applicants

Cambridge Respiratory Innovations Limited (CRiL) has been awarded an Innovate UK grant to complete research into tidal breathing monitoring across a wide range of respiratory conditions. The CRiL team have developed a low-cost personal respiratory monitor which measures the CO2 in normal tidal breathing. Their goal is to develop a range of personal respiratory monitors to help people who suffer from a range of respiratory diseases to better manage their condition. CRiL's N-Tidal C is powered by an advanced expitaxially-grown LED CO2 sensor developed in partnership with Gas Sensing Solutions. Although it uses advanced technology, the medical device is very easy to use, since it requires no forced expiration. CRiL's low-cost medical device accurately measures CO2 concentrations more than 50 times per second in normal tidal breathing. CRiL's N-Tidal C has recently been used in a significant exploratory clinical study with patients with COPD. The breathing records demonstrate clear changes in the breath record start to occur in COPD about 48 hours before a COPD exacerbation. The CRiL team are investigating whether their technology can predict attacks in asthma and help to improve medicines adherence and disease management across a range of respiratory conditions. The development of CRiL's innovative technology has been supported previously by both Innovate UK and SBRI Healthcare.

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Thermancy Ltd	Process Pump Monitor	£98,778	£69,145
Project description - provided by applicants			
Pumps are the most over looked piece of machinery in all industries. They are critical to the smooth operation of the process plant but are run constantly with minimal monitoring of their performance. In general, the only time action is taken is when the pump fails. Pumps currently account for 10% of the world's total electricity consumption with the majority of the life cycle costs (85%) of a pump being related to the energy spent in pumping. The rest (15%) is related to the purchase (5%) and maintenance of the pump (10%). The Process Pump Monitor would allow pump owners to easily fit a low cost device to their pumps, helping them to record accurate real-time pump performance parameters. The data from the Pump Monitor is used to reduce pumping energy costs, plan maintenance, and schedule pump replacement.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Endlesss Ltd	Endlesss (electronic music performance)	£88,402	£61,881
Project description - provided by applicants			
Endlesss is a music technology start-up company founded by electronic music pioneer and creative technologist, Tim Exile. Grant funding will enable Endlesss to undertake joint proof-of-market and industrial research to determine the market potential for software product Endlesss Hubbb (Desktop app) and other products on the Endlesss roadmap. Through this research project, we will investigate the technical and commercial feasibility of our first potential product Hubbb. Hubbb is derived from innovative technology for spontaneous electronic and acoustic music performance and composition developed over the last 10 years by Tim Exile. The technology solves significant problems with the workflow of existing music software that restricts performance-led music creation. Target customers for Endlesss Hubbb are DJs, intermediate & advanced producers and acoustic instrumentalists. The second product on our roadmap will target novice or aspiring musicians. Over the last 10-years, consumption of electronic music around the globe has boomed with download and streaming charts often topped by crossover dance or electronic artists with a strong live element. In the UK and Internationally, live music is also at its height, with more people than ever attending gigs and festivals. Endlesss aims to disrupt the market and capitalise on these trends by providing innovative digital technology and products to musicians around the world that make it easier to create and record electronic music live.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Instrumentel Ltd	Distributed Diagnostics Hub - DDH	£98,179	£68,725
Project description - provided by applicants			
The demand for rail in the UK and Europe is growing rapidly and to meet this demand improvements in capacity for the network have come from improved rolling stock and track upgrades but while the system operates at capacity it is critical that mechanical failures of rolling stock both locomotives and carriages are minimised to prevent delays and the possibility of rail operating companies incurring fines for lateness. The most significant cause of breakdown is door failure or a false indication of door failure. Companies have recognised and have developed solutions to this problem; However, these systems are expensive and can cost up to £10k/train. Other companies offer train condition monitoring systems focused either specific subsystems such as Bogies or simply monitor alarms, door indicators, air-conditioners with data loggers as distinct from condition monitoring these sub systems. Our innovation - DDH is a condition monitoring system that collects the large volumes of data from each sensor and provides alerts to the driver to a developing fault. The pre-processed data is then transmitted to a cloud server and that data set is further processed to provide information to the maintenance teams so they can plan maintenance and avoid a costly breakdown.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Skylab Bio	Automated characterisaton of human gene regulatory networks for precision medicine	£98,280	£67,396
Project description - provided by applicants			
Understanding gene regulatory networks (GRNs) is critical to our understanding of cellular function and disease. However, the current experimental paradigm of using cell-based assays for GRN characterisation is slow, laborious and costly, resulting in limited data output of low quantitative resolution. In this project, SkyLab Bio confronts these problems using a different approach. We will harness state-of-the-art biological systems, automation and computation to create a high-throughput, rapid, robust and highly reproducible human in vitro GRN prototyping service. This will provide a reliable solution to determining causality in gene regulation, allowing for a more quantitative, unparalleled insight into GRN organisation.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Starlab Ltd	Urban nature quality rating – Unique	£142,714	£99,900
Project description - provided by applicants			
In cities people consider scenes that include natural elements to be of higher visual quality than those with only man made features. Higher property values, cleaner air, moderated storm runoff, reduced energy consumption and improved health are some of the direct albeit tangible benefits and functions that urban nature provides. Current and prospective property owners face difficulties in quantifying and expressing the value of the surrounding urban nature. The provision of data on the quality of urban nature will provide a technical benchmark based on space technology to perform innovative analyses of value variations as a function of the proximity of property to urban nature. The information provided will serve two types of users: property appraisal professionals and retail market research developers. These two groups of users can factor the value of nature into their calculations of the economic value of a given property and individuals can consider the proximity of nature to a property as a factor to be considered when looking for a property to buy/rent. The UNIQUE project will provide the opportunity to evaluate and validate the exportation of previous business and technical development to the real estate market. The proof-of-market will support our activities of getting commitment from potential customers and, through the feasibility study, develop a Minimum Valuable Product, corresponding to the real user needs, for future customer prospection and service development.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Sweatco Ltd University of Warwick	Sweatcoin	£344,829	£270,377
Project description - provided by applicants			
All of us want to be fit and healthy and yet the vast majority can™t find motivation to exercise enough. A simple explanation to this lack of motivation is called present bias'•or hyperbolic discounting'• the lack of patience for long term rewards, despite its value (in terms of quality of life). The problem at stake is vast - over 60% of Britons being either overweight or obese with over £3 billion of direct costs for the UK economy annually. Sweatcoin makes physical movement valuable and thus solves the problem of motivation to exercise more. It is a platform that tracks and verifies physical movement dimply by carrying a smartphone. Sweatcoin uses state-of-the art algorithms to verify the number of steps walked and convert into currency which can be used to exchange for products and services. During this project, Sweatcoin will work in partnership with the Institute of Digital Healthcare, University of Warwick to develop new movement verification algorithms allowing more activities such as walking/running indoors and cycling to generate the Sweatcoin currency. This will provide greater accessibility to users, with the platform being potentially of most benefit to those at risk of obesity and lack of motivation to exercise. The project will further investigate reward and motivation behaviour in these populations, so that Sweatcoin can maximise the impact it has on getting people active again.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Squint/Opera Ltd	Blinc VR	£97,042	£33,947
Project description - provided by applicants			
Squint/Opera is a global leader in built environment visualisation and increasingly clients are asking us for interactive tours around future spaces. Because VR is the most immersive way to communicate 3D space, we want to build an experimental platform that will enable architects to build interactive tours around their designs without needing to understand how to code. The cloud based platform allows them to upload 360 stills and videos, then connect those spaces visually through hotspots. Once timing, titles and info layers are added the whole VR package is saved. At any point it can be published and shared either publicly, for free or privately as a premium service. The viewing apps will work on all major VR platforms and are a simple and seamless way to share designs and for clients to communicate feedback. We want to use this funding to build a fully working prototype of the system that we can share with our existing client base for feedback and further product development. Interactive VR tours are one of the most compelling and sought after ways to experience 3D space and we want to make it a viable communication method for all architects and designers.			

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Innovate UK

Results of Competition: **Open under 12 months and under £100k**
Competition Code: **1606_SC_Open_R1**

Total available funding is £13m (for all projects up to 12 months including Market Research)

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
Videra Service Ltd (T/A VideraBio) Centre for Process Innovation Ltd	Bioconversion of sterols to pregnenolone	£312,787	£246,763
Project description - provided by applicants			
The production of rapeseed oil generates low value streams rich in natural compounds that can be used as starting materials to produce high value compounds for the pharmaceutical, nutraceutical and cosmetics industries. This project will utilise a food grade yeast to convert the compounds in these waste streams to high value products that can be used as nutritional supplements, and as active pharmaceutical ingredients for the synthesis of a wide variety of drugs that are critical for human health. If successful, it will provide a more sustainable route for the manufacturing of these products, add value to the UK's rapeseed oil industry and launch new start-up companies in high value manufacturing.			

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Competition Code: **1606_SC_Open_R1**

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Photonic Vision Ltd	Novel Photonic LidarVision Sensor	£308,788	£216,152
Project description - provided by applicants			
Our project is aimed at the development of a novel photonic sensor technology that will overcome the key challenge of delivering low cost, yet reliable and safe sensing to replace the human driver's eye in autonomous and robotic vehicles. This will not only provide a substantial business growth opportunity, but will facilitate the delivery of major societal benefits such as affordable mobility; a reduction in the cost and human misery of road traffic accidents; reduced congestion and a reduction in pollution and CO2 emissions through new and more efficient transport. So far we have proven feasibility of the basic concept and applied for patent cover. The grant funding will enable us to de-risk both our technology and market entry, build our team and accelerate the pace of our development.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Guartel Technologies Ltd	Development of an Underwater Metal Dectector For CSI and Hobby Divers/Detectorists	£183,751	£128,626

Project description - provided by applicants

Crime scene investigation often requires retrieval of evidence from water bodies. 90% of the time police divers work in zero visibility requiring painstaking fingertip searches to locate small objects such as shell casings, knives, guns etc. Manual searches are extremely slow (~1 week for a 100m stretch of water), but dive times are often limited by the conditions and physiological limitations. Waterproof metal detectors improve search times but they are adapted land based units with ~20cm diameter coils and a long handle. Form factor, haptics and setup makes then unsuited to underwater CSI. Pin-point detectors though compact and simple are not sensitive enough to eliminate fingertip searching. Continuous wave metal detectors don™t work if the water is brackish or if the bed has metallic mineralisation. Pulse induction can be used, but high power consumption limits battery life in a unit that is compact enough. This project will overcome these limitations by developing a unique hand-held, sensitive metal detector for underwater use in extremely challenging conditions. Whilst underwater CSI equipment is a niche market, the same feature set will appeal to the very large number of hobbyist divers (950,000 PADI certified p.a.) who are looking to add another dimension to their hobby. The importance and societal benefits of equipping CSI personnel with reliable, effective tools to search underwater cannot be under-estimated as the divers work under extremely hazardous conditions where they are at risk of illness (Weil's disease, drug paraphernalia etc.), entrapment, hypothermia as well as all the normal diving risks.

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Balsamee Ltd	A Mental Health Patient Centric Continuous Care Solution: The Balsamee Care Solution	£98,259	£68,781
Project description - provided by applicants			
The Balsamee Care Solution is aimed at addressing the challenges faced by the healthcare system by providing a mobile solution for young mental health sufferers to manage their condition at home. The Balsamee Care Solution is specifically aimed at young mental health patients who use the Child & Adolescent Mental Health Services & are managed by Community Intensive Therapy Teams (CITT). Patients under a CITT experience mental health problems such as eating disorders, psychosis, affective disorders or repetitive self harm. This innovative cross agency methodology involves many different stakeholders such as healthcare professionals, teachers, social care workers, the patient & their family therefore it is resource intensive & requires careful coordination. Balsamee will develop a first of its kind patient centric fully mobile solution to facilitate the communication between the multidisciplinary teams in CITT. The solution will facilitate continuous care & enable community empowerment through the integration of remote health monitoring solutions & provide mobile applications to the stakeholders for instantaneous reporting, feedback, awareness & progress tracking using innovative approaches such as self-monitoring & socio-medical networking. This will help improve the accuracy of the data collected about patients for care delivery purposes, empower patients by enabling them to manage their condition at home, support the deployment of resources around the child more effectively to help achieve a better quality of life & reduce the consequences of mental health in their adulthood.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
CoControl Ltd	CoControl: Investment Optimisation Dashboard for Social Housing Landlords	£89,562	£62,693
Project description - provided by applicants			
CoControl is the UK's first socially focused connected homes technology, providing intelligent heating control for social tenants, and advanced levels of property insight for social landlords. CoControl is working with 7 social landlords in 120 properties to tailor our product line to the social housing space. Having demonstrated through trials a capability to help low income householders manage heating costs via comfort level feedback loops (versus using static temperature settings), CoControl is now focusing on improving its value to the landlords purchasing the product. The company is developing a prototype Investment Optimisation Dashboard (IOD) that integrates various sources of proprietary and externally sourced data to help Social Landlords make more informed, higher impact investment decisions. The potential UK market is large - Social Landlords spend £7.1bn annually on maintenance and repairs, and the quality of data used to make decisions with is poor. At present, there is no method of precisely uncovering which households are energy inefficient, whether occupants face health risks, or identifying where investment will go furthest. Improving the accuracy by which Social Landlords target works should then reduce annual expenditure, whilst maximising social impact. This Innovate UK grant supports our development to its proof of concept.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Flock Limited	Flock: the world's first Big-Data driven risk analysis tool for drone flights	£96,744	£67,720
Project description - provided by applicants			
The drone industry is growing rapidly; there are an increasing number of use cases for drones, from hobbyists flying in the park, to commercial operations such surveillance, data gathering and parcel delivery. Drones will be a $127 billion industry by 2020. However, drones bring with them a degree of risk; falling out of the sky into congested areas, environmental disturbance and privacy concerns in public spaces, to name a few. There is a growing need for technologies that can identify, quantify and minimise the risk of drone flights. That's exactly what we're building at Flock, and it is the project that this Innovate UK grant will support. Flock is the first software of its kind anywhere in the world: our Artificial Intelligence platform tracks in real time the position of people, vehicles, structures, weather systems and more, calculating the safest possible flight-paths for drones to fly through congested urban environments. Our software is essential for insurers, operators, policy-makers, and UTMs, as it helps to keep the public safe from overhead drones, whilst allowing operators to intelligently schedule and route their flights to minimise risk. Our unique approach is to aggregate multiple data sources and use machine learning and path optimisation algorithms to generate optimal flight paths in real time, allowing operators to quantify and minimise flight risks on the spot. This project brings together world-leading experts to design and build a technology that will become the de-facto standard of drone safety globally, and make the UK a pioneer in drone safety standards.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Citel Technologies (UK) Ltd	X-Toll	£92,833	£41,500
Project description - provided by applicants			
Toll or phone fraud is theft. It happens when an attacker gains unauthorised access to your phone system and makes unauthorised calls with your account. The impact of toll fraud within a VoIP (Voice over Internet Protocol) SIP (session initiated protocol) network can be severe. Hackers are able to hijack systems and push through charges that can total £2,000 an hour or more. Whilst there are some prevention measures in place currently these are limited, especially when looking at multi-tenant service providers. Citel has identified an automated solution to the ever increasing toll fraud attacks on businesses, a solution that will not only detect such illegal acts but also prevent them. The purpose of this project is to develop a proof of concept prototype designed for preventing and detecting toll fraud. After completion of this project, we will then carry out user trials to gather data and present evidence enabling us to make sales.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Altuity Solutions Ltd University of Bristol	Democratising BIM through light weight on-site imaging.	£99,871	£61,379
Project description - provided by applicants			
Maintaining a building and its assets is essential to their safe and efficient use. This is a challenge for small to medium sized enterprises (SME), education and public sector organisations. Limited budgets and non-specialist staff mean workplace managers rely on manual processes, spread sheets and/or limited scope software (e.g. computerized notepads) for collecting and accessing building data. This project will provide these users with a mobile field data capture solution using innovative augmented reality technologies. The solution provides pragmatic yet sophisticated, cost effective access to BIM, asset and maintenance data. By leap frogging existing state-of-the art mobile apps we™re providing accurate onsite data capture and information access through interactive user environments that combine visually-realistic onsite imaging (e.g. via photospheres) with Building Information Modelling (BIM), asset and maintenance information. Augmented reality and mobile technology innovations, such as the capture and display of 3D environments and positional intelligence capabilities, will allow users to easily access these disparate technologies in an innovative, integrated and targeted solution. Providing a mobile capability which is easy to use and easy to integrate into existing business workflows democratises access to innovative technology while encouraging the wider adoption of BIM in sectors such as education (e.g. schools) and Small to Medium sized Enterprises (SME's).			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Floreon-Transforming Packaging Ltd	Transforming Bioplastics: Renewable and Cost Effective Alternatives to Polystyrene for Semi-Durables	£99,092	£69,364
Project description - provided by applicants			
Floreon provide high performance bioplastics that don't cost the Earth. The aim of this project is to further enhance the performance of an existing bioplastic compound, increasing its heat resistance which will open up new and demanding applications such as cutlery and coffee capsules. Producing these products from a compostable bioplastic will help prevent these products ending up in landfill when regular recycling isn't possible due to contamination. The base material of Floreon's bioplastic is completely renewable and has a far lower carbon footprint to produce (70% lower than polystyrene) so the resulting products are better for the environment both before and after use.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Kheiron Medical Technologies Ltd	Kheiron Proof of Concept	£282,669	£197,868
Project description - provided by applicants			
Kheiron have identified an opportunity to develop novel, widely applicable computer aided diagnosis (CAD) software tools that help radiologists with cancer discovery and tracking in clinical practice by leveraging the power of artificial intelligence and machine learning algorithms closely combined with high performance computing, healthcare IT insights and medical expertise. Radiologists play a critical role in cancer care and drug development, while the associated tasks, cancer discovery and tracking constitute the most notoriously torturous and time-consuming burden in the day-to-day work of radiologists. Having to do these tasks under time pressure (due to workforce shortages) can lead to loss of morale, loss of concentration and, ultimately, the unnecessary loss of patient lives. Currently there exists no successful CAD system adequate for full-body cancer assessment, despite the obvious need. Recent advancements in machine learning technology allow us to tackle the important task of developing the first solution. The results of this development project will enable the production and deployment of software into the clinical workflow. The software will save time and cognitive workload for doctors, save costs for hospitals and through faster response times and improved accuracy, will also directly improve patient outcomes.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
ITM Power (Trading) Ltd	Novel Process for MEA Catalyst Fixing	£99,614	£59,780
Project description - provided by applicants			
The demand for electrolysis is expected to rapidly increase with the roll out of Hydrogen Refuelling Stations (HRS) and Power-to-Gas systems now coming on line. However, to guarantee widespread uptake of the technology the cost of the systems needs to come down. In this regard ITM Power have made significant progress to ensure they remain the world leader in both the performance and the cost of their patented water electrolysis technology. This project is about development of a novel manufacturing process (including development of the equipment) that will allow ITM to produce much larger membrane electrode assemblies (MEAs) faster and cheaper. The project will facilitate the manufacture of MEAs for ITM's new megawatt stack range of products, which will provide the highest power density energy storage equipment available today. The manufacturing technology and knowhow for producing MEA's of this scale currently sits outside the UK; this project will change that. In addition the technology will provide a step change toward full roll-to-roll automation of MEA manufacture and will help cement the UK's leadership role in the area of high efficiency mass energy storage.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Impact Recycling Ltd	Development of innovative technology for seperating mixed waste plastic	£94,365	£66,000
Project description - provided by applicants			
BOSS (baffled oscilation separation system) was launched in 2015 and is a commercial technology for separting mixed waste plastic. It allows higher purities than other technologies and delivers large uplifts in value to a recycler. The current system depends on working with other technologies, however Impact has identified a route to use BOSS without the need for these other technologies, and allow BOSS to be sold as a standalone system. This has the potential to significantly increase plastic recycling in the UK and abroad, reducing C02 outputs and making recycled plastic a valuable raw commodity. This will allow UK manufacturers a competitive advantage through accessing lower cost feedstocks and lead to job creation throughout the UK.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
AMS Sensors UK Limited	Miniaturized and ultra low-power thermoelectric gas sensors for carbon monoxide monitoring	£99,754	£49,877
Project description - provided by applicants			
There is a growing demand for low-cost and low-power gas sensors for use in mobile devices including smart phones and wearables. Currently, there is no technological solution available in the market. We proposed to tackle this by engineering an innovative product for carbon monoxide detection. Carbon monoxide is often a by-product of fuel combustion, however, it is extremely dangerous because of its toxicity and lack of taste or smell. The sensing devices will be produced using the same technology employed for producing camera and calculator processors. In this innovative approach, we will be able to detect the temperature changes due to the minuscule amount of heat produced by the chemical reaction between carbon monoxide and a sensing material. At the end of the project we will produce a demonstrator module which can be connected to a smartphone for displaying carbon monoxide concentration and that will make our homes safer.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Healthcare Learning Ltd	Novel Healthcare E-learning Platform utilising Virtual Reality for Immersive Dental Training	£592,921	£266,814
Project description - provided by applicants			
Dental surgery is a complicated and dextrous skill which requires significant training and practice. Lack of effective training combined with time pressures and unrealistic targets on dentists leads to surgical complications and unsatisfied patients. Virtual reality (VR) has shown great potential in the field of dentistry as it provides a low cost approach for dental surgery simulation/training. A few UK universities currently use VR for dental training however CURRENT technologies are limited; they cannot be used online, so students must still travel to the venue for training; and they follow traditional training procedures failing to exploit the potential of gamification to motivate students. To address the need for improved VR training solutions, Healthcare Learning Limited (HCL) will deliver a remote learning solution for Restorative & Aesthetic Dentistry (RAD) students (appropriate for any MSc or BSc covering aspects of RAD). The technology will improve on state of the art, by embedding VR content into course material which is designed specifically for remote learning and can be delivered to students in any location using low cost consumer electronics (VR headsets costing £15-£30 are compatible with Smartphones ~£100). This will significantly extend the population™ of dentists globally who are able to benefit from the education ; help standardise and raise the quality of training; and help expose students to a wider range of treatment issues, more efficiently. In addition, the will exploit gamification concepts in course material thus improving student productivity by giving extra motivation.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
The Sustainable Home Survey Company CIC University of Sheffield	Intelligent Air-Brick (IAB)	£134,919	£105,161
Project description - provided by applicants			
SHS is an energy advisory organisation that has delivered 15,000 assessments and energy efficiency interventions (~120,000 tCO2 savings) under the ECO scheme and has developed innovative retrofit solutions. Domestic space heating is responsible for 15% of the greenhouse gases. Up to 25% of our homes' heat escapes through the floor. This affects nearly 9 million homes, 20% of which lives in Fuel Poverty. Despite this, floor insulation hasn't become widespread yet, due to the high cost and high disruption. We idenitifed a need for a low-cost high impact passive ventilation control that automatically controls the air-flow via air-bricks to floor voids, in order to a) reduce floor heat loss; b) improve dwelling airtightness; c) mitigate risk of condensation. The same mechanism can then be adopted to other applications within the home (e.g. trickle vents, bathroom extracts, loft soffits).			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Matrix Recycling Systems Ltd	A new method for seperation & full recovery of multilayered packaging waste to create high value materials	£99,779	£69,859
Project description - provided by applicants			
The food manufacturing sector has been producing multi-layered packaging since the 1970s. Multi-layered packaging offers a combination of properties that one polymer alone cannot provide (e.g. moisture, oxygen, light barrier, stiffness, clarity, gloss etc); typically comprised of layers of PET/PP/PE/PA. Over 40m tonnes p.a. of multilayered plastics are produced globally, of which the EU contributes 9.6m tonnes, with an expected growth of ~7%. However, due to the extreme difficulties in achieving effective separation of the multi-layered packaging into its constituent solid polymer components, there are no current technologies or operational processing plants for solid separation & recovery of the polymer fractions. As a consequence, multi-layered, flexible plastic waste is currently collected as a single waste stream & disposed of through landfill (at costs of £100/t), or incinerated (~£60/t); generating global economic losses of £2.4-4 billion. Disposal of such large volumes of plastic also generates great environmental concern, with an urgent need to develop effective separation technology. Our objective is to develop a novel recycling method to separate multilayered plastic packaging waste. Successful development of this technology will create the business opportunity to recycle this material, generating new revenues while reducing waste, landfill, energy & reducing annual CO2 emissions. Our novel process will not only ensure the sustainable supply of these plastics as raw materials via recycling but will also provide participating SMEs with the opportunity to derive an ongoing income.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Learning Light Ltd Very Viz Ltd Sheffield Hallam University	SQL view	£96,787	£74,658
Project description - provided by applicants			
The aim of the project is to create a digital environment where the structure of SQL queries are visualised. SQLview is designed to enhance teaching and understanding of database queries in higher and further education and possibly IT apprenticeships as well as code camps. SQLview will show the constructs of the query, opening it up to consideration and learning by highlighting strengths and weaknesses of the query and its results. This will show what is going wrong in the SQL construct as it relates to relational databases, and importantly where it is going wrong. At present feedback from database queries is presented at the semantic level, at best simply illustrates the linkages between different relationships being used at the primary and secondary key level, showing if relationships were constructed as one to one or one to many. SQLview offers a more experiential learning environment designed to be used to help learner understand SQL query constructs. In addition we are paying close attention to the research from NESTA and Innovate UK which indicates that many decision makers in organisations need to grasp the potential of data analytics (Big Data) in day to day operations. We firmly believe that SQLview will play a role in the corporate training market as part of larger training packages aimed at understanding Big Data analytics from a business perspective.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Phil Coppell Ltd	Externally finished, fire resistant & installation ready panelised roofing system for low pitched roofs-RoofExcel	£99,546	£59,727
Project description - provided by applicants			
There are more than 3 m low pitch (<3 deg) dwellings in the UK only & more than 20% of these were built~100Yrs ago. Indeed buildings >50Yrs old are usually deteriorated to such an extent that only option is the roof replacement with the associated high costs, building time & disrupts day to day life of the inhabitants. The existing low pitch roof replacement solutions are very specific in terms of pitch size, have a typical installation time of days to weeks & fail to bring about the required aesthetic appearance of matching existing tiles, don™t age & weather like the original tiles, have no insulation & fire resistance properties & are specific to target a certain pitch roof range.We, PCL Ltd, propose a panelised based roofing solution RoofExcel™ for a range of roofs with pitch from 1 to 45deg targeted at two markets: those undertaking roof replacement & those involved in the new home buildings. The overall objective is to develop a panelised based roofing solution which will serve a range of pitched roofs, provide Class A fire resistance, have high speed of installation (~2hrs for a single story 16m2 roof), high level of construction efficiency, reduces site waste, has original like aesthetic finish & weathering properties & costs ~£120/m2 installed (individual panel size~1.8m2). Through this research project, we aim to develop 120m2 RoofExcel panels to prove that the envisaged claimed benefits can be achieved. Successful development & commercialisation will help us being the market leader & one stop provider of the roofs for all seasons. Through RoofExcel, 5Yrs Post commercial, we will increase our FET by 10 & revenue by 30% commercialisation.			

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Innovate UK

Results of Competition: **Open under 12 months and under £100k**
Competition Code: **1606_SC_Open_R1**

Total available funding is £13m (for all projects up to 12 months including Market Research)

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
Bluesky International Ltd	Pointclouds and measurement from mobile video	£98,191	£68,733
Project description - provided by applicants			
The proposed project is to assess the feasibility of using mobile phone video to create colourised 3d Point clouds for any given environment for the purpose of accurate infield distance measurement and assessment. This application is unique because we will use low cost mobile phone video instead of single images to create 3D point clouds. This will make it easier for the non-specialist user because they don™t have to understand 3D data processing requirements and have to think less about the capturing configuration (image overlap and distances between images). It also does not rely on expensive (e.g. laser scanning) equipment and it will be easy to train people using familiar technology, i.e. mobile phones. There will be a very high degree of automation throughout the workflow. The proposed tool will enable accurate measurement of vegetation and subsequent auditing, and will allow office staff to make accurate measurements at the office base. The new application will enable Bluesky to diversify into adjacent markets by applying their experience of airborne photogrammetry to land based applications. The application will also have use in insurance industries (claims assessment/forensics) or any industry requiring onsite 3D measurement, including from drone video footage.			

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Innovate UK

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Competition Code: **1606_SC_Open_R1**

Total available funding is £13m (for all projects up to 12 months including Market Research)

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Advanced Design Technology Ltd	TURBOdesign2 Throughflow solver (TD2-TF)	£99,776	£49,888
Project description - provided by applicants			
The TURBOdesign2 Throughflow solver (TD2-TF) project will address the theme of Engineering™ by enhancing the capabilities of an existing software design tool to explore a new market opportunity and to respond to customer's needs. By targeting the turbofan and the turbine power generation sectors the project will also address the themes of Transport - aerospace™, and Energy generation and supply - general™. With this project, Advanced Design Technology Ltd. (ADT) wants to develop TD2-TF, an inverse design throughflow solver for axial turbomachinery that can be licensed to customers and used for consultancy projects. This commercially ready software package promises high level of accuracy with a significant reduction of the computing time in comparison with the current commercially available tools. ADT is particularly interested in the growing Chinese market where development and growth could be reinforced and guided by established companies. The successful completion of this project will have a direct economic benefit in ADT through increased engineering consultancy projects and sales of licenses. Having a commercially available tool by the beginning of 2018 will imply direct increased revenue providing a platform from which further benefits will grow.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Revivocell Ltd	"CELLBLOKS" - A Novel Cell Culture Device	£95,190	£66,633
Project description - provided by applicants			
Cell culture is a process whereby living cells are grown in laboratory conditions without using animals in order to gain better understanding of body function, disease or to develop new drugs. Traditionally, cells have been grown in hard and flat 2-D surfaces, either in glass or plastic, a technology that has not changed significantly since the invention of the Petri dish by Julius Richard Petrie in 1870s. Researchers across many sectors, including pharmaceutical industry, research organisations and universities apply conventional cell culture for the growth and testing of mammalian cells. Cell culture has played a vital role in many life science discoveries such as the development of new drugs or vaccines. However, the results often lack efficiency as cell growth is constrained within the available 2-D surface when compared to true three-dimensional (3-D) environments of living tissue. ReVivoCell Ltd is developing a novel device for the growth of cell cultures, in laboratory condition, that can mimic the function of living tissue much more closely. Existing technology for 3-D cell culture is expensive, difficult to use and not easily adaptable for different experiments and cell types. This technology would potentially increase the success rate of developing new treatments and reduce the reliance on animal testing. The objective of this project is to assess the feasibility of a newly developed 3-D cell culture device. ReVivoCell's invention will provide a reliable, fast and cost effective device that could be used worldwide.			

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Innovate UK

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Orbital Works Ltd	Orbital Multiscale Pipeline Management Platform	£97,372	£68,160
Project description - provided by applicants			
The goal of this project is to develop a novel Software-as-a-Service (SaaS) platform that utilises satellite data, and field sensor data where available, to detect the threats that affect hazardous material pipelines in real time. We plan to achieve our goal by revolutionising satellite data processing through the application of deep learning technologies. We believe we will greatly improve the way in which pipeline operators manage and mitigate threats such as leakages, third party damage and geohazards by enhancing the effectiveness of threat detection, reducing the cost to comply with regulations, and boosting the accountability of pipeline stakeholders to environmental protection agencies. Beneficiaries of this project will be society as a whole, because the risk of hazardous material pipeline leakages and of the consequent environmen-tal damage will be severely reduced, and pipeline operators who will face lower Capital Expenditure in the cur-rent business climate in which they face tight budgets due to low energy prices and ever stricter government regulations.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Revolymer (UK) Ltd University of Liverpool	Evaluating biosubstrate triggered emulsions for step change product design and development	£234,838	£179,179
Project description - provided by applicants			
Developing next-generation smart products with minimal waste and efficient targeting of benefits is important to many industrial sectors from: drug delivery to disease sites, the focussing of antibacterial agents to areas of bacterial growth and the application of cleaning agents to skin, teeth and hair. The University of Liverpool and Revolymer Ltd have a clear opportunity to evaluate a step-change technology and define its potential for commercial use. Future applications may include new therapy development, enhanced hygiene products and reduced agrochemical waste. The aims of the project are firstly to establish industrial value from the early-stage academic research, secondly to develop clear product opportunities for further investment and, thirdly to provide clear evidence that the technology has the scope and ability to impact multiple end-user companies.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
ClickMechanic Ltd	ClickMechanic - Bringing Transparency and Trust to a Broken Industry	£509,787	£229,404
Project description - provided by applicants			
There are high levels of dissatisfaction among drivers who take their car for repair. This is due to a big asymmetry of information, where consumers are often unaware of how much a repair should cost, due to there being no current industry standard™ price for work completed on vehicles. This problem is coupled with a distrust of garages, which is justified as a study from ClickMechanic across 182 garages in the UK showed that women were quoted an average of £45 more than men for the same repair. The current market dynamics of the car repair industry do not suit garages either, 51% of drivers prefer to go back to the same garage they have previously used. This indicates consumers lack confidence to venture to other providers that may provide a better service, thus limiting the potential for recognition of superior garages. This stifles competition because new garages cannot succeed without a large marketing spend. The automotive industry is crying out for a holistic service with an industry standard pricing scheme that is easy to use for drivers and rewards hard working mechanics. This led to the creation of ClickMechanic: an online mechanic directory that licenses & uses millions of official data points combined with rule-based algorithms and data cleansing to produce an industry standard quote for the work. This service enables pricing transparency, booking efficiency, cost and time savings.			

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Innovate UK

Results of Competition: Open under 12 months and under £100k
Competition Code: 1606_SC_Open_R1

Total available funding is £13m (for all projects up to 12 months including Market Research)

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
Intelligent Ultrasound Ltd	ScanNav Guidance System	£99,621	£69,734
Project description - provided by applicants			
A well recognised imaging modality, Ultrasound (US) is mobile, rapid, gives results in real time and avoids harmful radiation, such as X-rays. It is also much cheaper than magnetic resonance imaging. As the cost of portable medical US devices has reduced significantly there is a great opportunity for it to become more widely used for rapid diagnosis, and to reduce other more costly or harmful, imaging methods. However, US requires expertise to acquire and interpret images: the greatest barrier for wider adoption world-wide of medical US is no longer the need to improve imaging quality, but the need for highly trained personnel to acquire and interpret images. Training programmes have not kept up with demand, and there is no way to provide continuous monitoring of the performance of sonographers. This project aims at making US suitable for every day use by less expert healthcare professionals, particularly in community care settings. To do this, Intelligent Ultrasound (IU) Ltd has developed automated software technology and commercial know-how to check that obstetric US scans are fit-for-purpose. The proposed technical feasibility project will develop software to guide a non-expert to interpret obstetric US video in real-time as well as an expert. This new US guidance technology - built on IU's underpinning technology platform of deep-learning based US image interpretation - will automatically guide a non-expert to a high quality diagnostic plane in real-time. Innovate UK funding will address a global need and open up a totally new market for IU: supporting US closer to home.			

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Innovate UK

Results of Competition: **Open under 12 months and under £100k**
Competition Code: **1606_SC_Open_R1**

Total available funding is £13m (for all projects up to 12 months including Market Research)

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Creative Lighthouse Ltd	Establishment Genie Phase 2	£138,402	£96,881
Project description - provided by applicants			
The outcome of the project will be a user-tested, ready-for-market, cloud based establishment review tool that focusses on budgeting and safety, producing standardised, comparable reports and information at organisation and national level, which meets the recommendations outlined in the Francis Report (2010) and Francis Inquiry (2013), the Carter Report (Feb 2016) and the NQB Guidelines (July 2016).			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Credit Data Research Ltd	Universal credit report and rating for SMEs	£198,236	£89,206
Project description - provided by applicants			
Currently SMEs are facing a lack of transparency on why banks and other financial organisations reject or approve an application for funding. Credit scoring are unique to each lender and no information can be shared to the SME on why their application for loan has been approved or not. The project aims to develop an IT system that will be able to provide an accurate, compliant report and credit rating to SMEs. This will respond to a current need for an assessment of the credit worthiness of SMEs and help them better access to funding from various lenders. This report will be unique as it will not only include an analysis of the financial data from the financial statements of the company, but also an analysis of the company's behavioural data (information recorded in the Credit Registry Agency regarding on borrowing patterns of companies)ext (press F1 for assistance). The project aims to develop a preproduction prototype which will be validated and demonstrated for 5 countries for an initial phase: France, Spain, Italy, Portugal and UK.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
E4 Structures Ltd	Hybrid reinforced geopolymer composites	£97,644	£68,351
Project description - provided by applicants			
There is a demand in the construction market for materials that can improve energy efficiency in the built environment (materials with low embodied CO2 energy) and for alternative materials capable of replacing products made from oil-based polymers, gypsum, cement fibre with higher performing, lower cost and more sustainable advanced materials. E4 Structures is developing novel geopolymer hybrid composites that can be produced from renewable materials and can meet new and advanced and high added value in service functional requirements such as high fire resistance, chemical resistance, sound deadening, high impact, heat transmission (far infrared).			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Pennog Ltd Bangor University	Self-Cleaning Building Materials	£97,794	£77,240
Project description - provided by applicants			
An unintended consequence of the use of cleaner environmental conditions is the prevalence of microbial and plant growth on surfaces in the built environment. This has led to more regular use of chemical fungides, biocides and algicides in order to keep surfaces clean. The aim is to design, develop and test, in collaboration with Bangor University, new functional materials, that allow surfaces in the built environment to self-clean. The innovative new products will comprise recycled and natural materials, supporting the further development of the Circular Economy. Flexibility in the design of the materials will allow product fabricators to develop products suitable for the particular climactic and microclimactic conditions in the built environment in Northern Europe and North America.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
MICA Biosystems Ltd Keele University	Commercial translation of a dynamic ADME screening platform,.DYNASCREEN.	£78,040	£45,849

Project description - provided by applicants

The Caco-2 cell line used by the pharmaceutical industry and support companies is the gold standard for the prediction of drug absorption and permeability in vitro by mimicking the small intestine. However, this model lacks the dynamic motion which represents one of the physiological functions of the small intestine (peristalsis). Our new product developments using MICA technology investigate the possibility of improving the static Caco-2 cell model by creating a dynamic in vitro screening environment. Our results to dateas part of an Innovate funded Feasibility study have shown that MICA™ technology improves the absorption of the selected drugs, and their permeability is more similar to that found in the human intestine. Our data suggests that MICA™ technology applied to Caco-2 drug permeability assay could be used to a better predict, using in vitro assays, the in vivo human drug absorption rates. We are now at the stage of validation of our assay with a partner ADME contract research organisation (CRO) before commercialisation of our product. This project will enable us to create the final QA steps and the validation of the assay in an ADME CRO environment using validated drug compounds. The final stages will include creation of standard operating procedures (SOPs) alligned to the existing assay and design of new QA steps for the protocol.

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
ObjectTech Group Ltd	Self-sovereign identity attestation model research	£137,931	£85,000
Project description - provided by applicants			
-ObjectTech's project is build a prototype of the attestation side of our system of self-sovereign identity. When combined with our identity locker, this creates a trustworthy identity which automates many existing processes. -The acute need for this come			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Orla Protein Technologies Ltd	Using ORLA PDL-1 to save the world	£99,197	£69,437
Project description - provided by applicants			
In the last few decades, drugs, biologicals, and vaccines targeting certain attributes of the immune system, known as immunotherapeutics, have become available, and emerging clinical data suggest that cancer immunotherapy is likely to become a key part of the clinical management of cancer for years to come. Elimination of cancer by T-cells is only one step in the cancer immunity cycle. T-cell activation is controlled by both stimulatory and inhibitory checkpoints. Tumors use the expression of inhibitory ligands as a mechanism of suppressing cytotoxic T-cell response and inducing an immunosuppressive environment. Identification of specific cancer T-cell inhibitory signals, such as PD-L1, has prompted the development of a new class of cancer immunotherapy. Although immunotherapies represent a major step forward in cancer care, providing in some cases, unprecedented response rates, there are still major bottlenecks to be overcome in the manufacture of these new therapies. Orla Protein Technologies is an UK based biotechnology company that is attracting increasing market traction for its OrlaSURF platform in the biomanufacturing industry. This project will enable the company to utilize its proprietary platform to develop an innovative new range of engineered protein reagents to address key industry manufacturing needs.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Foodchain Technologies Limited	FoodChain Ltd	£587,224	£411,057
Project description - provided by applicants			
The Foodchain project is twofold. We will develop an aggregated collaborative supply chain which will use a sophisticated technological platform to simplify business administration in managing supplier relationships, and we will design an innovative new packaging concept for ambient fresh product distribution which will be reusable and returnable. Customers will have one web based supplier relationship rather than numerous individual business relationships with multiple suppliers across differing platforms. The consolidation of logistics will reduce the number of drops being made to restaurants whilst giving producers a simple route to market without the difficulties of managing their own delivery logistics. We will effectively cut out the aggregator from the supply chain. This project will result in reduced wastage because of more efficient supply, reduced air pollution because less journeys and 'drops' are carried out in congested cities, and increase productivity as restaurants spend less time managing suppliers.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Carroll & Meynell Transformers Ltd	Simultaneous DC Rapid Charging for Multiple Electric Vehicles (MultiCharge)	£96,533	£57,920
Project description - provided by applicants			
Development of a simultaneous multiple rapid charging solution with the lowest possible capex investment, using a scalable EV charging system enabling up to ten (10) EVs and any currently manufactured charging type to be simultaneously supplied with 50kW DC rapid charging from one single transformer with a single grid connection.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Nimble Babies Ltd	Product Development for a Chemical Steriliser Alternative	£149,325	£104,528
Project description - provided by applicants			
Chemical sterilisers are still widely used by parents to sterilise their babies' utensils despite the advent of steam and microwave sterilisers. This project aims to develop an alternative to existing chemical sterilisers to eliminate its disadvantages and provide a good sterilisation option to parents who still prefer using chemical sterilisers or to parents who are not completely satisfied with microwave sterilisers.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Excel with Business Ltd	Workforce productivity skills diagnostic platform - research and experimental development.	£99,436	£59,633

Project description - provided by applicants

Forget the productivity puzzle™ Britain faces a productivity crisis. National and firm-level productivity in the UK has worried policy makers and business leaders for decades. But now flat growth, a debt overhang from the 2008 crisis, and post-Brexit uncertainty threaten long-term depression. Productivity-led growth in output and wages is the only way out. Skills are a key driver. Yet training budgets are being cut and investment in novel training technologies has been half-hearted over the long-term. Requirements are still established with old-fashioned training needs analyses and met with manually curated resources. To achieve the required step-change in the productivity of our workforce we must harness technology to personalise training and optimise skills. We propose a data-driven online platform to diagnose skills gaps, make training recommendations and coach learners along personalised paths. The project would conduct research and product development in: - development of a machine learning algorithm to identify relevant training material for individuals; - definition of a portfolio of skills that demonstrably affect organisational productivity, quantifying how those skills contribute. These research components support two key links in the productivity value chain: between skills and productivity; and between worker profile and skills requirements.

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Cognitiv+ Ltd Digital Catapult Olswang LLP Capgemini Ltd	Contractual obligation extraction using artificial intelligence	£604,074	£429,712
Project description - provided by applicants			
Legal Business Contracts govern the business relationship between trading business partners. They are like blueprints of expected business behaviour of all the contracting parties involved, and bind the parties to obligations that must be fulfilled by expected performance events. This highly innovative project proposes the automation of the obligation extraction task using artificial intelligence, especially machine learning and natural language processing. Since the extracted information will be already in machine readable format we also propose the development of software the implements the workflows that have to do with obligation management(e.g.payment calendars, reporting notifications,etc.). The solution, accessed directly or as a service, will help legal, commercial and compliance professionals to accelerate contract review and analysis as well as avoid manual data entry into corporate systems, allowing them to focus on higher-value tasks. It will generate significant cost savings (50-90%) through the reduction of the time spend on manual tasks. On top of that, we expect significant operational risk reduction which will lead to reduced costs of litigation and potential penalties.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Craft Machine Ltd	Development of a Novel Talent Company Matching Model (TalCoMM)	£99,942	£69,959
Project description - provided by applicants			
In recruitment today, the dominant paradigm is matching candidates to job listings. Job sites aggregate listings and offer an industry-standard interface where candidates search by title and location. There are huge deficiencies in this model, including: i) 50% of real job opportunities are never published but filled by referral (CareerBuilder); ii) searching by job title+city usually produces thousands of results, far too many to review or compare fully; iii) many jobs today are so dynamic that job roles change soon after starting; iv) most listings contain little or no information about the employer, especially recruiter listings which deliberately remove the employer name; v) job listings only show labour market needs today, whereas a smart candidate needs to know how are needs evolving. Craft has seen a gap in the market to develop a novel Talent-Company-Matching-Model "TalCoMM"•that assesses enhanced fit between candidate and a company needs using innovative searching and matching tools.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Cryomation Ltd	Researching the Industrial Possibility of Cryomation Automation; the Zero Emission Alternative to Cremation	£196,747	£137,722
Project description - provided by applicants			
At current global mortality rates over 60 million people will die this year. Cremation is the leading funeral process in the world. Cremating a 100kg body produces 180kg of CO2 as well as atmospheric pollution with heavy metals. Traditional Burial with its memorials, cemeteries and ongoing maintenance has the greatest long term impact on the environment of all funeral processes. The world population is forecast to grow to over nine billion by 2050. Cryomation is a zero emission alternative to Cremation, developed through an award winning KTP at the University of Hertfordshire, which uses Liquid Nitrogen, freeze drying and accelerated composting to produce sterile human remains. The process has no fossil fuel burning incinerators, no harmful effluent streams and the remains can be buried in a much smaller space than other burial processes. The remains disappear to nothing, so burial land can be reused. The remains are ideal for green'•funerals and burial under trees, remains can be scattered or taken home in a pot, supporting the life of a memorial plant. Having proven the science behind the process under the KTP and after confirming the feasibility of delivering the process commercially, as well as the consumer and industry support for Cryomation, through an Innovate UK Smart funded proof of market project, Cryomation now need to confirm the engineering challenges in delivering the automated cryogenic batch process can be overcome, before moving to a full prototype build.			

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Innovate UK

Results of Competition: **Open under 12 months and under £100k**
Competition Code: **1606_SC_Open_R1**

Total available funding is £13m (for all projects up to 12 months including Market Research)

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
Siemens PLC Avon Polymer Products Ltd (T/A Artis) Clwyd Compounders Ltd	Graphene/Elastomer Nanocomposites for Subsea Applications	£97,095	£50,721
Project description - provided by applicants			
Graphene/Elastomer Nanocomposites for Subsea Applications - Development of graphene reinforced elastomers to provide multi-functional benefits for elastomeric components used in subsea electrical connectors.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
Big Solar Ltd	Advanced Nano-Barrier Film Development	£91,138	£63,797
Project description - provided by applicants			
Big Solar Limited is a pioneering SME working to develop cutting edge energy solutions. This project seeks to validate the concept of an innovative higher performance barrier film which is able to be manufactured at a market leading low cost. The novel barrier film would enable significant international growth opportunities in a range of markets including; printable electronics, food, medical packaging and industrial applications.			

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Participant organisation names	Project title	Proposed project costs	Proposed project grant
AppAttic Ltd	Crowdsourced Clinical Validation Process for mHealth Products	£96,172	£67,320
Project description - provided by applicants			
AppAttic are proposing to research a revolutionary means of clinically trialing low-risk Mobile Health (mHealth) products to prove their efficay and safety in order to dramatically reduce the cost (time and money) of validating solutions. The challenge is to use the power of the Internet, existing commercial app stores and innovative mobile technology to enable any potential low-risk mHealth product to crowdsource a clinical trial online. The aim is to reduce the significant costs, resources and time required to run a standard Randomised Controlled Trial (RCT) during the early stages of research and development (R&D) of innovative new mHealth technologies. The cost of running these trails is significant, often costing hundreds of thousands of pounds and taking months/years to complete. The resources they consume take away from what could be better invested in further R&D to accellerate new solutions that benefit society and the economy, this is especially true for low-risk software applications, where technology and innovation can move fast but is hindered by processes that may be unnecessary. This feasibility study will provide insight into user adoption, safety, and efficacy of such a solution. A successful outcome would free company resources to focus on innovation of technology to and support AppAttic's grand vision: healthcare that focuses on maintaining good health through engagement, early intervention, behaviour change, and prevention to reduce the time spent suffering from ill health.			

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Innovate UK

Results of Competition: Open under 12 months and under £100k
Competition Code: 1606_SC_Open_R1

Total available funding is £13m (for all projects up to 12 months including Market Research)

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
Steel Software Solutions Ltd	An online service to evaluate supply chains based on Intelligent automation (Rallivo)	£99,998	£34,999
Project description - provided by applicants			
Manufacturers and retailers often depend on other companies to supply vital goods and services for their own operations and so any disruption in the supply chain negatively affects operations. The financial impacts can be serious, ranging from a temporary drop in profits to more permanent loss of market share. A 2015 World Economic Forum study estimated that £453 Billion is annually lost due to poor supply chain management. The main problem is accessing up-to-date, valid information of supplier operations and quality certification. This information is vital for evaluating supplier performance and compliance to operational and regulatory standards. Existing solutions use a 1 to 1™ model, where companies have to deal with one supplier at a time and have to fill in several forms to get supplier information or authenticate supplier certifications - a lengthy and costly process. To address this problem, Steel Software Solutions is developing a user-friendly online supplier evaluation service that uses in-house developed intelligent automation to verify certificates and avail information to a global network of suppliers. This will allow companies to access information on the platform and verify supplier compliance, automatically eliminating the strenuous and error-ridden processes offered by current solutions.			

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