Innovate UK

Results of Competition: Women in Innovation 2018

Competition Code: 1806_WOMEN_IN_INNOVATION

Total available funding is £448,788

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
GRAVITY SKETCH LIMITED	The future of vehicle design	£49,488	£49,488

Note: you can see all Innovate UK-funded projects here: https://www.gov.uk/government/publications/innovate-uk-funded-projects
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Project description - provided by applicants
From dreaming of changing the world to disrupting the transportation design industry. My vision relates to the Future of mobility and the change in the way people, goods and services will move, from battery technology to smart city planning. Most proposed solutions relate to the transformation of vehicles as we know them. But who and how are they being designed? These vehicles have endless possibilities regarding their use, size, shape. Designers are no longer limited by having to fit an engine at the front of the car, as electrical vehicles will carry the technology on the floor of the chassis; they are also not limited by the fact that drivers need to be sitting and stirring a wheel. By 2040 combustion engines will be banned in the U.K. making automotive manufacturers shift priorities and race to innovating in this space. The old tools and design processes used in this industry will not work for a fast-paced, multi-company projects working around the world. U.K. must continually innovate to stay at the forefront of automotive design. There is an opportunity to improve the automotive design process, as its currently inefficient, expensive and time-consuming. Gravity Sketch is an immersive 3D design software allowing designers and engineers to intuitively design in 3D. The focus of this project shifts to focusing on the future of transportation and working towards building a company that will develop software that disrupts and propels the design for the future of the transportation industry.

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KG PROTECH LIMITED	KG TechCoach	£49,989	£49,989

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Project description - provided by applicants
Cintia Kimura is a serial entrepreneur and innovator in the transportation and IoT space. Born in Brazil, Cintia came to the UK in 2017 when she was awarded an Exceptional Talent Visa. Since then Cintia has been dedicated to advancing the UK startup and innovation ecosystem. In 2016, Cintia founded KG Protech to make practical automotive training more accessible and prepare car mechanics for the cars of the future. The company's flagship product, KG Test&Train, allows automotive instructors to train mechanics remotely by simulating fault scenarios on a functional vehicle through a universal IoT platform. Compatible with all brands and models, KG Test&Train enables decentralised practical training with the same quality as in the training centre, but at a fraction of the cost. ?KG Protech's disruptive innovation was awarded the Seal of Excellence by the European Commission and received funding by the Horizon 2020 SME Instrument, the framework programme for research and innovation of the European Union in 2018\. The company was recognised among the leading automotive deep tech startups in Europe by The Next Web and was selected among the top 7 mobility startups by Hello Tomorrow Summit. Previously, Cintia was CEO and co-founder of Duarte & Gonçalves, an engineering firm developing bespoke technological solutions and equipments for the automotive, agriculture and construction industry. Since founding her first company at age 22, Cintia has been involved in numerous innovation projects, leading development teams and filing applications for three inventive patents. Before becoming an entrepreneur, Cintia worked in different commercial roles for leading automotive brands, such as Renault, Hyundai or Harley Davidsson. Cintia is an alumni of MassChallenge UK, R/GA IoT Venture Studio London, Moove Lab Paris and French Tech Ticket. From her own professional journey, she is passionate about increasing the share of women in entrepreneurship and changing the perceptions of women in the automotive industry.

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SOL-GEL COATINGS & ADVANCED MATERIALS LTD	The Elimination of Single Use Plastics in Food and Drink Packaging	£50,000	£50,000

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Project description - provided by applicants
Me I have a Doctorate in Chemistry awarded by the University of Manchester. I have worked in a number of universities (QMUL, Manchester, Kingston), raised a family and established a legal consulting business. In 2014 I started a business based on my specialist knowledge of sol-gels (Solution- Gels). **My business** I have found ways to create non-toxic coatings that render surfaces antimicrobial, hydrophobic or oleophobic or a mix of these properties in one treatment. I can customise the process creating bespoke design services to multiple industries that seek to improve surface properties, sometimes avoiding multiple 'conventional' chemical (often toxic) treatments. Having engaged with a number of potential large clients I have a much clearer understanding of the markets/applications that I can serve. I have developed an R&D 'service' to clients providing specific bespoke/unique solutions that meet their exact requirements. SGMA now has: premises including a laboratory; a network of support (public sector and university), access to specialist analytical facilities; a strong Team; a portfolio of opportunities and a key application poised to offer substantial financial value/growth, with notable environmental/social impact.

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U-FLOOR TECHNOLOGIES LTD	Female led smart home business - AirEx	£49,501	£49,501

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Project description - provided by applicants
Buildings in use account for 44% of greenhouse gas emissions in the UK, and while governments introduced various energy efficiency schemes to reduce carbon emissions in domestic homes, the range of products that cost-effectively address energy efficiency is extremely limited. To address this challenge, me and my team have designed and developed a patent-pending, award-winning smart home technology that saves 15% on a home's heating bills, without compromising air quality. Its smart sensors monitor and analyse environmental conditions while its cloud-based algorithms automatically regulate the airflow. As a result, AirEx improves residents' thermal comfort, ensures good air quality and is able to reduce the home's heat loss by c. 15% - with an associated 2-3 years payback. Furthermore, the real-time data AirEx provides helps Facility Managers to significantly reduce their repair & maintenance expenditures by enabling preventative maintenance (e.g. flagging up indicators of damp).

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VITRUE LTD	Vitrue Health	£50,000	£50,000

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Project description - provided by applicants
Functional health information is a powerful tool enabling clinicians to maintain patient quality of life, but it is let down by imperfect assessment tools that are subjective, have poor repeatability and are insensitive to incremental change. Vitrue's computer vision based system removes these issues by accurately measuring motor function and automating large portions of the reporting burden bringing huge cost savings while enabling physiotherapists and occupational therapists to vastly improve patient outcomes. The goal of this project is to enable clinical validation of the Vitrue system and integration of user feedback to finish building our product and get it ready for market.

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RUN3D LIMITED	Walk3D - a Gait Analysis and Walking Re-training application to help Older Adults stay Active, Healthy and Independent.	£49,916	£49,916

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Project description - provided by applicants
My vision is to bring 3D Gait Analysis technology from research into the 'real world' and to use it to support 'real people' to keep active. I recognised its potential during my PhD and developed Run3D as a novel real-time 3D gait analysis and retraining platform to diagnose and treat musculoskeletal injuries in athletes. My vision for this award is to develop our 3D gait analysis platform for the orthopaedic medicine and rehabilitation sectors, focusing on older populations, where the need is greatest. It has been shown that physical activity is vital to keeping us healthy and mentally active throughout our lives and these enable us to be independent and enjoy our lives in whatever way we choose. We slow down naturally as we age, so it is even more important to maintain, or even increase, our physical activity in older age. However, there are 300,000 bone fractures per year associated with fragility and many of those affected never recover their confidence in walking or their independence. Walk3D will teach people to walk steadily and confidently after injury, operation or illness, enabling them to recover activity, independence and maintain a healthy life. We have interest from our Run3D customers in providing them with a bespoke walking gait analysis and retraining platform; this award will enable me to develop it ready for market launch and the support and mentoring package will give me the support to expand my business and succeed in the mass orthopaedic and rehabilitation markets. I love to share my Run3D story to inspire others, both in STEM and business events, including Innovate UK 2017 conference, Women in Science and Engineering (WISE) and the Said Business School, Oxford. As a role model, I have a work-life balance despite my commitment to Run3D. I look after my young family at the same time as growing my company and I still run competitively at National Level: I represented Wales this year and I hold the buggy-marathon World Records for running a marathon whilst pushing a pram with baby on board.

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MYWAY DIGITAL HEALTH LIMITED	Debbie Wake_ Women in Innovation Award	£49,996	£49,996

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Project description - provided by applicants
I am delighted to submit an application for the Women in Innovation Awards. I am a medical doctor/ academic by training, and driven by a passion to 'make a difference'. I hold a strong belief that technology can empower people and improve lives, and have scaled the award winning MyDiabetesMyWay system over 13 years (as clinical lead), to be the only self-management platform in the world to be rolled out nationally (in Scotland) with 40,000 registrants. I have co-founded MyWay Digital Health Ltd (spin out of the University of Dundee), and in 20 months as CEO have 18 employees and secured around £3m in innovation funding, including Innovate UK i) SBRI awards (\> £1m), a ii) Digital Health Catalyst;£1m AI in diabetes care (MyDiabetesIQ) project, iii) NHS Test Bed -NHS Greater Manchester (£400k) and iv) secured NHS England commercial contracts. I believe I have excellent leadership potential and a vehicle to deliver impact through innovation This application aligns perfectly with the Industrial Grand Challenges around Data and Artificial Intelligence and also to some extend with the Ageing Population strand. I aspire to scale MWDH to be a global leader in data-driven healthcare. In this application, I describe our aspirations to use data and AI to deliver life saving and cost saving solutions for chronic disease management starting with diabetes. This award will give a cash injection supporting the early release and testing of important automated data driven decision support functionality for our MyDiabetesMyWay platform. This will enable us to maintain a competitor advantage. This award will also bring important credibility to the business and support for growth and internationalisation to enable us to reach other market particularly those with very high prevalence of diabetes including the Middle East and US. I am also passionate about enabling women in STEM industries to reach their true potential through role modelling opportunities and keen to enhance my own ongoing learning through the services provided by Innovate Uk and partners.

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TOTAL CONTROL PRO LIMITED	Turning small data into big data - bringing AI to performance benchmarking for UK Manufacturers	£62,512	£50,010

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Project description - provided by applicants
Turning Small Data to Big Data, how to connect the long tail of small UK Manufacturers and create a powerful dynamic and effective community knowing sharing and delivering best practice in UK Manufacturing. Dolores Sanders: Strategy and Marketing Director Total Control Pro Limited. At 25 years old, I experienced my first success in innovation and business creation, with an ISCA Government Award alongside Martha Lane Fox. I rode the rollercoaster of the dotcom growth and decline, alongside raising a family. I returned to the executive board room 2 years ago at Total Control Pro Limited bringing my skills and experiences together by recognising the changing needs to provide software that is available, accessible and affordable for UK manufacturers. I am not a techie, I join the dots between the state-of-the-art technologies available and their applications to create solutions that make a real difference. This project will take an existing product, TotalControlPro(tm) Activate, and deliver it into a critical mass of small UK Manufacturers -- allowing them to track and trace the people, product and process activity of their shop floor and see in real-time the work flow, efficiencies and productivity of their factory. For most UK small manufactures, this is something they believe to be currently unaffordable and unavailable to them. Moreover, this user community of small data points will generate an anonymised big data set for analyses and delivery back to each user's platform, performance benchmarks and best practice insights. For the first time, small and micro manufacturing SME's can leverage from big data to improve productivity and effectiveness of their people and business processes. I am committed to seeing the productivity gap close to have UK SME Manufacturers see how they can become major players in a global marketplace. "I believe I can be an inspiration to all women, young women just starting out in their business or with a small kernel of an idea, through to woman, of all ages that perhaps think it's too late, it's never too late"

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AERGO LTD	Aergo : Responsive postural support system	£49,889	£49,889

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Project description - provided by applicants
I'm the founder of a medical device company, Aergo. Our mission is to empower people with disabilities by providing innovative assistive technologies to enable better physical and social participation. Drawing on my experience as a female founder, and the additional challenges this has raised, I aim to grow Aergo into a sustainable business while sharing my learnings to inspire more women to innovate in the healthcare sector. Proper seating posture is vital to digestion, breathing and communication, but the ability to sit comfortably is a daily struggle for over 1 million wheelchair users in the UK. Improper seating can exacerbate spinal deformities and leads to complications that devastate lives and cost the NHS over £3 billion a year. I created Aergo to be the world's most adaptable postural support system. It uses a network of patent-pending air cells to support individuals of all ages and needs. The remote-controlled system provides adjustable pressure-relief for a range of physical conditions and is the first device of its kind to grow with the user through its expandable frame. Among the benefits Aergo will be able to offer are pressure ulcer prevention for the Ageing population, the mitigation of risk of back pain in the likes of office workers and truck drivers. At Aergo we're driven by the belief that design today does not do enough to foster participation and engagement from all parts of our society. By offering solutions that empower users to control their own care, we aim to place personal health and autonomy within reach of everyone.

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