

EPSRC Impact Acceleration Account Projects 2017-2022

Round	Year	Stream	Title	PI Surname	PI First Name	Department
1	Mar-17	Partnership	Smart optics for satellite instrumentation	Booth	Martin	Engineering Science
1	Mar-17	Technology	"Smart" materials vs thermally- insulating hybrids for regulating building temperature	Edwards	Peter	Chemistry
1	Mar-17	Technology	Scaling up nanoparticle sensors based on open microcavities	Smith	Jason	Materials
1	Mar-17	Partnership	Biosolenoid for tissue engineering and drug discovery applications – mechanobiological force control for bioreactors	Thompson	Mark	Engineering Science
2	May-17	Partnership	Technologies to achieve healthier contact-sport participation	Bergmann	Jeroen	Engineering Science
2	May-17	Technology	A simple miniature epi-illuminator to integrate four advanced light microscopy techniques	Berry	Richard	Physics
2	May-17	Technology	Next generation computer memories – using light to store data	Bhaskaran	Harish	Materials
2	May-17	Partnership	Advanced Modulation for Spectrally Efficient Communication	Coon	Justin	Engineering Science
2	May-17	Partnership	Translation of advanced X-ray radiography techniques for investigating extreme material deformation.	Eakins	Daniel	Engineering Science
2	May-17	Technology	Ratiolytics: a rule-based AI system for reasoning, data wrangling and analytics	Gottlob	Georg	Computer Science
3	Aug-17	Technology	Developing a new UK solar industry standard for the calculation of residential solar photovoltaic selfconsumption	Darby	Sarah	SOGE
3	Aug-17	Technology	An extremely monoenergetic ion beam by photoionisation of xenon atoms	Foot	Chris	Physics
3	Aug-17	Partnership	Secondment to the National Infrastructure Commission to embed EPSRC-funded research in the National Infrastructure Assessment.	Hall	Jim	SOGE
3	Aug-17	Technology	High-security authentication labels	Kirkland	Angus	Materials
3	Aug-17	Technology	Single Molecule Imaging Mass Spectrometry (SMIMS)	Kukura	Philipp	Chemistry

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3	Aug-17	Technology	3D-SHM: A novel wireless sensor for monitoring critical civil infrastructure	Markham	Andrew	Computer Science
3	Aug-17	Technology	Advanced Process Control for Thin Film Technologies	Riede	Moritz	Physics
3	Aug-17	Technology	Temporal Mode Multiplexing for Telecommunication Networks	Saunders	Dylan	Physics
3	Aug-17	Partnership	KOALA: Kids Online Anonymity & Lifelong Autonomy	Shadbolt	Nigel	Computer Science
3	Aug-17	Partnership	Modelling retail store energy consumption for improved accuracy of consumption forecasting	Wallom	David	Engineering Science
4	Nov-17	Technology	Scale-up of metal-free catalysts synthesis for commercialization	Aldridge	Simon	Chemistry
4	Nov-17	Technology	A new class of therapeutic oligonucleotides	Brown	Thomas	Chemistry
4	Nov-17	Partnership	Portable extensional rheometer for the characterisation of complex fluids	Castrejon Pita	Alfonso A.	Engineering Science
4	Nov-17	Partnership	Compilation and cost-reduction of quantum computations via ZX-calculus	Coecke	Bob	Computer Science
4	Nov-17	Technology	Translating the Clinical Development of the First Small Molecule Probe of TB	Davis	Benjamin	Chemistry
4	Nov-17	Technology	Algorithms for Narrative Generation on Social Media	Grindrod	Peter	Mathematical Institute
4	Nov-17	Technology	Development of a nanoparticle-assisted high-throughput prototype system for chemical speciation measurements of trace elements (DIFFNAL)	Henderson	Gideon	Earth Sciences
4	Nov-17	Partnership	FakeNewsRank: A Ranking for Detecting Fake News on the Web	Lukasiewicz	Thomas	Computer Science
4	Nov-17	Technology	Laser Written Polymer Scaffolds for Flexible Liquid Crystal Displays	Morris	Stephen	Engineering Science
4	Nov-17	Technology	Monitoring nutrition in critically-ill patients	Ritchie	Grant A D	Chemistry
4	Nov-17	Technology	Migravision: a novel high-throughput screen for drugs affecting cancer cell migration	Szele	Francis George	DPAG
5	Feb-18	Partnership	Enabling the dry chemical analysis of radioisotopes using atom probe tomography	Bagot	Paul	Materials

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5	Feb-18	Technology	Percolation gas sensor demonstrator	Castell	Martin R	Materials
5	Feb-18	Technology	Crowdsourced Map Building for Disaster Response	Reece	Steven	Engineering Science
6	May-18	Technology	Ultrafast imaging mass spectrometry	Brouard	Mark	Chemistry
6	May-18	Partnership	Semi-automated Image Analysis for Histology	Byrne	Helen	Mathematical Institute
6	May-18	Technology	OPTICFLOCK: de-risking for market evaluation	Dawkins	Marian	Zoology
6	May-18	Doctoral Impact	Cold-atom source for commercial matter-wave gravimeters and other quantum technology instruments	Foot	Christopher	Physics
6	May-18	Technology	Feasibility study for the scale-up and automation of the Biopatch manufacturing chain	Mouthuy	Pierre-Alexis	NDORMS
6	May-18	Partnership	Ultrasound Targeted Combination Therapy for Pancreatic Cancer	Stride	Eleanor	Engineering Science
6	May-18	Partnership	Hip joint analysis and modelling tools	Voiculescu	Irina	Computer Science
6	May-18	Technology	Translating sulfoximine catalysis to the life science sector	Willis	Michael	Chemistry
7	Nov-18	Technology	Smart Glass Printing	Elston	Stephen	Engineering Science
7	Nov-18	Technology	Medium-Term Forecasting of Airport Passenger Numbers	Hauser	Raphael	Mathematical Institute
7	Nov-18	Technology	Augmented Reality Security Assistant	Martinovic	Ivan	Computer Science
7	Nov-18	Technology	Open Acoustic Devices: Bringing low-cost smart acoustic sensors to conservation professionals	Rogers	Alex	Computer Science
7	Nov-18	Technology	ECO Retrofit app	Darby	Sarah	SOGE
7	Nov-18	Partnership	Data Integration for Precision Method	Benedikt	Michael	Computer Science
7	Nov-18	Partnership	ELECTROCHEMICAL BACTERIA SENSOR	Compton	Richard	Chemistry
7	Nov-18	Partnership	High-Heat Flux Cooling Technology	Nicholas	Jack	Engineering Science
7	Nov-18	Partnership	High-sensitivity optical gas sensor for toxic vapours	Tan	Jin-Chong	Engineering Science
7	Nov-18	Partnership	Artificial intelligence for the management of weaning from mechanical ventilation in intensive care	Bergmann	Jeroen	Engineering Science

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7	Nov-18	Doctoral Impact	Decision-making tool for better use of lime mortar on traditional and historic buildings	Viles	Heather	SOGE
7	Nov-18	Doctoral Impact	Characterisation of thermal fluxes on satellite debris analogues	Ireland	Peter	Engineering Science
8	Mar-19	Technology	Autonomous Inspection for Solar Farms	Hawes	Nick	Engineering Science
8	Mar-19	Technology	Proof of Concept Study for the Implementation of Decentralized Green Ammonia Production Unit for Farmers	Tsang	Edman	Inorganic Chemistry
8	Mar-19	Technology	Smartphone authentication of high-security labels	Williams	Benjamin	Engineering Science
8	Mar-19	Technology	Automation of a T-cell expansion bioreactor	Ye	Hua	Engineering Science
8	Mar-19	Partnership	Bridging the gaps in 18F PET tracer development	Gouverneur	Veronique E B M	Chemistry Department
8	Mar-19	Partnership	Global Costs Of Strategic Telecommunication Strategies (Global-COSTS)	Hall	Jim	Environmental Change Institute
8	Mar-19	Doctoral Impact	Optimizing the performance of a conical ceramic membrane	Griffiths	Ian	Mathematical Institute
N/A		Technology	3D Printed Electromagnetic Materials	Grant	Patrick	Materials
N/A		Technology	CREST - C REference model Synthesis Tool: Datapath Formal Verification using CMBC for C Specifications	Melham	Tom	Computer Science
N/A		Doctoral Impact	Knowledge Transfer Ambassador - 1 (KTA - InFoMM CDT)	Breward	Chris	Mathematical Institute
N/A		Doctoral Impact	Knowledge Transfer Ambassador - 2 (KTA - InFoMM CDT)	Breward	Chris	Mathematical Institute
8	Mar-19	Workshop	Medical Device Regulation Impact Workshops	Bergmann	Jeroen	Engineering Science
8	Mar-19	Workshop	Application of Machine Learning to Spacecraft Systems	Simon	Jackman	MPLS
8	Mar-19	Workshop	Oxford Workshop on Flexible Federated Energy Systems	Thomas	Morstyn	Engineering Science
8	Mar-19	Follow on Fund	A new class of therapeutic oligonucleotides	Brown	Thomas	Chemistry
9	Feb-20	Technology	High Precision Molecular Charge Spectrometry on a Chip	Krishnan	Madhavi	Chemistry
9	Feb-20	Technology	Reflectance spectral imaging of cardiac thrombus for stratification of risk in patients	Vallance	Claire	Chemistry

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			with ST-elevation myocardial infarction			
9	Feb-20	Technology	Large-scale Network Traffic Malware Detection	Martinovic	Ivan	Computer Science
9	Feb-20	Technology	Snapper: An Improved Snapshot GPS Receiver with Bayesian Processing and Open-Source Hardware	Rogers	Alex	Computer Science
9	Feb-20	Technology	Nanowire terahertz sensors with polarisation sensitivity	Johnston	Michael	Condensed Matter Physics
9	Feb-20	Technology	Chi.Bio: A platform for automated measurement and characterisation of biological systems	Papachristodoulou	Antonis	Engineering Science
9	Feb-20	Technology	A tool to support decision making for the Oxford-Cambridge Arc	Hall	Jim	Environmental Change Institute
9	Feb-20	Technology	Developing a real-time chemical sensor for nitrous oxide for medical and environmental monitoring	Aldridge	Simon	Chemistry
9	Feb-20	Technology	High Energy Density, Safe Batteries for Extreme Conditions	Pasta	Mauro	Materials
9	Feb-20	Technology	Making asymmetric Suzuki reactions suitable for industry	Fletcher	Stephen	Chemistry
9	Feb-20	Partnership	Development of paediatric urine collection device for non-toilet trained children to reduce contamination rates	Bergmann	Jeroen	Engineering Science
9	Feb-20	Partnership	Building personalised heart and torso models from clinical MRI scans for simulation of cardiac electromechanics	Grau	Vicente	Engineering Science
9	Feb-20	Partnership	Towards a Hub in Responsible Innovation for Quantum Computing	Jirotko	Marina	Computer Science
9	Feb-20	Partnership	Manufacturing High-Field Magnets using High-Temperature Superconducting Bi-2212 wires	Mousavi	Tayebeh	Materials
9	Feb-20	Partnership	Estimation of Displaced Populations Post-Disaster: a Question of Data and Demography	Steinsaltz	David	Statistics
9	Feb-20	Partnership	Switch Catalysis for the Synthesis of Degradable Polymers for Homecare Applications	Williams	Charlotte	Chemistry

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9	Feb-20	Doctoral Impact	Scale-up Manufacturing of OTFT Circuits for Medical Sensing	Assender	Hazel	Materials
9	Feb-20	Doctoral Impact	Electron Energy Loss Spectroscopy and its data analysis for a better understanding of the radiation damage and corrosion of nuclear materials	Grovenor	Chris	Materials
9	Feb-20	Doctoral Impact	Learning from Reigate Stone: Opening barriers to the effective, cross disciplinary management of vulnerable historic masonry	Viles	Heather	SOGE
9	Feb-20	Strategic	OpticFlock: Preparation for Commercial Licensing	Dawkins	Marian	Zoology
9	Feb-20	Strategic	¹⁸ F-Labeling of Unmodified Peptides for Positron Emission Tomography Imaging	Gouverneur	Veronique E B M	Chemistry
10	Oct-20	Technology	All-optical neural networks	Lvovsky	Alexander	Atomic & Laser
10	Oct-20	Technology	Market Analysis: New porous materials using waste from water treatment plants	O'Hare	Dermot	Chemistry Department
10	Oct-20	Partnership	Computational tools to predicting chemical reactivity	Duarte	Fernanda	Chemistry Department
10	Oct-20	Technology	Reconfigurable Wireless Monitoring & Reactive Jamming	Martinovic	Ivan	Computer Science
10	Oct-20	Partnership	AI for GNC with Airbus/ESA	Abate	Alessandro	Computer Science
10	Oct-20	Partnership	Populations of Electro-mechanical Models for Predictions of Drug-induced Changes in Cardiac Contractility	Passini	Elisa	Computer Science
10	Oct-20	Partnership	Perovskite Nanocrystals for Displays and Lighting	Snaith	Henry	Condensed Matter Physics
10	Oct-20	Technology	Next-generation clinical micro-endoscopes	Booth	Martin J	Engineering Science
10	Oct-20	Technology	Smart Fibre Optic Force Sensors	Sheil	Brian	Engineering Science
10	Oct-20	Workshop	"Lights, laws and livelihoods": A multi-discipline dialogue to revamp electricity access in Sudan.	Elmukashfi	Elsiddig	Engineering Science
10	Oct-20	Technology	Curator - Software for automated data engineering, data mining and advanced	Delmestri	Antonella	NDORMS - Botnar

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			curation of clinical real-world data			
10	Oct-20	Technology	Long-read single cell sequencing	Philpott	Martin	NDORMS - Botnar
10	Oct-20	Technology	AuRa	Bentine	Elliot	Physics -
10	Oct-20	Technology	Predicting failures for zero handpump downtime	Thomson	Patrick	SOGE
11	Feb-21	Technology	Rapid Helicobacter pylori testing at the point-of-care	Castell	Martin R	Materials
11	Feb-21	Technology	Femoral head extractor - testing and surgical trial	Huber	John	Engineering Science
11	Feb-21	Technology	Magnetic Microbubbles for Targeted Cancer Therapy	Stride	Eleanor	Engineering Science
11	Feb-21	Partnership	From reasoning to Neuro-symbolic AI for knowledge graphs and vision	Benedikt	Michael	Computer Science
11	Feb-21	Partnership	Oxford LawTech Education Programme	Melham	Tom	Computer Science
11	Feb-21	Partnership	Oxford Photonics for the European Space Agency	Morris	Stephen	Engineering Science
11	Feb-21	Partnership	Joint academic-industrial development of a low-cost metabolomics-based blood test for early detection and prognosis of Alzheimer's Disease	Probert	Fay	Chemistry Department
11	Feb-21	Doctoral Impact	Roll-to-roll manufacture of flexible thermoelectric generators for powering wearable technologies	Assender	Hazel	Materials
11	Feb-21	Doctoral Impact	In silico clinical trials for precision medicine in genetic heart disease: Evaluation study	Bueno Orovio	Alfonso	Computer Science
11	Feb-21	Doctoral Impact	Accelerate the implementation of a new transonic high pressure tip cooling technology	Coull	John	Engineering Science
11	Feb-21	Doctoral Impact	Quantum-Enhanced Analysis of Vaccines and Pharmaceuticals in High-Finesse Cavity Flow Cells	Kuhn	Axel	Atomic & Laser Physics
11	Feb-21	Doctoral Impact	A decision support tool for wind farm infrastructure developers to improve their environmental sustainability performance	Milner-Gulland	Eleanor Jane	Zoology
11	Feb-21	Doctoral Impact	Developing software tools for enhanced atom probe imaging in the semiconductor industry	Moody	Michael	Materials
11	Feb-21	Doctoral Impact	Bridging the gap: An online toolkit to help conservation	Viles	Heather A	SOGE

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			professionals evaluate treatments for historic sandstone			
11	Feb-21	Workshop	AI applications to new deep and offshore groundwater resources	Bertoni	Claudia	Earth Sciences
12	June 2021	Doctoral Impact	In-situ radiation damage in superconductors for fusion magnets	Grovenor	Christopher R M	Materials
12	June 2021	Doctoral Impact	The Metagovernance Project	Kissinger	Alexander	Computer Science (BL)
12	June 2021	Workshop	One Health - enabling a behavioural response to air quality through geospatial	Obersteiner	Michael	Environmental Change Institute
12	June 2021	Workshop	CATSAT - AI on board spacecraft for disaster management	Baydin	Gunes	Computer Science (BL)
12	June 2021	Partnership	Nanowire Based Fuel Cells	Watt	Andrew A R	Materials
12	June 2021	Partnership	Carbon-free civil aviation	di Mare	Luca	Engineering Science (DF)
12	June 2021	Partnership	OU-OUH-GE IAA Partnership project on data-driven healthcare	Rittscher	Jens	Engineering Science (DF)
12	June 2021	Partnership	Urban Resilience and Hydro Hazards in Developing Country Cities	Grindrod	Peter	Mathematical Institute (BK)
12	June 2021	Technology	Fast development of a Global Resilience Index for climate-resilient	Hall	Jim	Environmental Change Institute
12	June 2021	Technology	Designing and prototyping an intravascular ultrasound device for ultrasound	Kwan	James	Engineering Science (DF)
13	Aug/Nov 2021	Doctoral Impact	Developing a vulnerability assessment guideline for rock-hewn sites	Viles	Heather	SOGE
13	Aug/Nov 2021	Doctoral Impact	Machine learning adaptive optics	Booth,	Martin	Engineering Science (DF)
13	Aug/Nov 2021	Workshop	Societal impact of heritage-based mobile public engagement events with	Viles	Heather	SOGE
14	Jan 2022	Doctoral Impact	Artificial Intelligence method for risk prediction after myocardial infarction: validation on an external clinical cohort	Grau	Vicente	Engineering Science (DF)

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14	Jan 2022	Doctoral Impact	Deploying Efficient and Provably Secure Steganography to End Users	Torr	Philip	Engineering Science (DF)
14	Jan 2022	Doctoral Impact	Cutomising / Enhancing the thermomechanical performance of Shape	Korsunsky	Alexander M	Engineering Science (DF)
14	Jan 2022	Doctoral Impact	Nonaqueous Flow Battery Scale-up	Monroe	Charles	Engineering Science (DF)
14	Jan 2022	Workshop	Science Together: Oxford Researchers and Communities	Moore	Oliver	MPLS Divisional Office
14	Jan 2022	Workshop	Advances in N-body Computations	Vinko	Sam	Atomic & Laser Physics
14	Jan 2022	Partnership	Nanowires catalyst for alkaline electrolyser application	Watt	Andrew A R	Materials
14	Jan 2022	Partnership	Numerical aerothermochemistry for hypersonic flows on GPUs	di Mare	Luca	Engineering Science (DF)
14	Jan 2022	Partnership	OxAria IAA - Multi-sensor air pollution data for councils	Leach	Felix	Engineering Science (DF)
14	Jan 2022	Partnership	Data-driven Forecasting of Audience Demand at the Royal Opera House	Grindrod	Peter	Mathematical Institute (BK)
14	Jan 2022	Technology	New tools for reproducible hydrogen-deuterium exchange mass spectrometry	Crook	Oliver	Statistics (AM)
14	Jan 2022	Technology	Spectrum: Evaluating a Light-Colour Geolocator	Rogers	Alex	Computer Science (BL)
14	Jan 2022	Technology	Compact dual imaging mode contactless and endoscopic surgical	Booth	Martin J	Engineering Science (DF)
14	Jan 2022	Technology	Low-cost point-of-care ultrasound for Breech detection	Noble	Alison	Engineering Science (DF)
14	Jan 2022	Technology	Prototype software for fast and accurate structural interpretation of ion mobility mass spectrometry data	Benesch	Justin LP	Chemistry Department
14	Jan 2022	Technology	Simplifying single-cell encapsulation for next-generation sequencing	Cribbs	Adam	NDORMS - Botnar
14	Jan 2022	Technology	Selective oxidation of vitamin D3 for the production of 25-hydroxy-vitamin D3	Wong	Luet Lok	Chemistry Department