

EPSRC Impact Acceleration Account Projects 2017-2021

| 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) | Beward | Chris | Mathematical Institute |
| N/A | | Doctoral Impact | Knowledge Transfer Ambassador - 2 (KTA - InFoMM CDT) | Beward | 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 Physics |
| 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 - Central |
| 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 |