

UK India Education and Research Initiative (UKIERI-4)

List of final awardees for Strand 1 - Institutional Research & Mobility Partnerships Grant

| SI nu | Submission ID | Project Title | Thematic area | Lead UK University | Lead Indian University |
|-------|---------------|--|-------------------------|-----------------------------------|---|
| 1. | 45575367 | Decentralised learning and decision-making | Advance Computing | University of Bristol | Indian Institute of Science, Bangalore |
| 2. | 45582882 | Development of Next Generation of Spatio-Temporal Multimode Broadband Amplifiers for Fiber Optic Communication (NextSTAR) | Next Gen Communication | University of Southampton | Indian Institute of Technology Hyderabad |
| 3. | 45576953 | Tunable One-Dimensional Molecular Ribbons and Two-Dimensional Conjugated Organic Frameworks as Advanced Organic Semiconductors | Semiconductors | The University of Manchester | Indian Institute of Technology, Kanpur |
| 4. | 45582521 | AI-Driven Resilient Semiconductor Supply Chain | Artificial Intelligence | University of Warwick | Indian Institute of Technology Kharagpur |
| 5. | 45570497 | Development of amorphous silicon flexible alpha radiation detectors for nuclear decommissioning | Semiconductors | University of York | Indian Institute of Technology Bombay |
| 6. | 45572670 | Development of Generative AI to Predict Hydrogen Embrittlement Failure on Welded and 3D Printed Parts | Artificial Intelligence | Coventry University | Vellore Institute of Technology |
| 7. | 45559145 | Artificial Intelligence-Assisted Glycopolymer-Based Mucoadhesive Nanogel for Targeting Cervical Tumor Microenvironment | Artificial Intelligence | University of Bradford | Indian Institute of Technology Kharagpur |
| 8. | 45564759 | Perovskite Inspired Chalcogenide Semiconductors for Efficient Optoelectronics | Semiconductors | University of Oxford | Indian Institute of Science |
| 9. | 45571862 | Integrated Optical and Radio Frequency Sensing and Communication for Sustainable Development | Next Gen Communication | Aberystwyth University | Indian Institute of Technology Indore |
| 10. | 45566002 | EMERALD: Environmental Monitoring and Evaluation via Remote Advanced LoRa-Driven Detectors for Heavy Metal Contamination | Next Gen Communication | Middlesex University, London (MU) | Vellore Institute of Technology (VIT) |
| 11. | 45581779 | Integrating Artificial Intelligence into Dental Education: Addressing a critical global oral health challenge through transformative capacity building | Artificial Intelligence | Queen Mary University of London | Guru Gobind Singh Indraprastha University |

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| 12. | 45371261 | Wireless earbuds for post-laryngectomy Silent Speech Interface | Artificial Intelligence | University of Cambridge | Chitkara University Punjab |
| 13. | 45462375 | Self-Powered Wearable Biosensor Integrated with Nanopore and Triboelectric Nanogenerator for Non-Invasive Health Monitoring | Semiconductors | Nottingham Trent University | Panjab University |
| 14. | 45575372 | Developing a smart city geospatial data catalogue to capture complexities of urban mobility in India | Advance Computing | University College London (UCL) | Malaviya National Institute of Technology, Jaipur |
| 15. | 45501287 | IRS-Aided OTFS Framework for Integrated Terrestrial and Non-Terrestrial Networks for Seamless Connectivity | Next Gen Communication | The University of Edinburgh | Indian Institute of Technology (BHU) Varanasi |
| 16. | 45354770 | Functionalizing the next generation 2D semiconductors for optoelectronic and catalytic applications via ion irradiation | Semiconductors | University of Surrey | Indian Institute of Science Education and Research Thiruvananthapuram (IISER TVM) |
| 17. | 45576332 | UAV-enabled ultra-reliable low-latency communication for energy efficiency and latency reduction in 6G networks" | Next Gen Communication | University of Glasgow | Indian Institute of Space Science and Technology |
| 18. | 45580615 | Layered Nanocomposite Composed of Graphene Carbon Quantum Dots and Mxene Coated with Calcium Oxide Nanoparticles for Large Scale Carbon Dioxide Capture and Translation into Nano-Fertilizer | Semiconductors | University of Nottingham | NITTE University |
| 19. | 45575458 | Advancing Healthcare through Predictive Analytics: A Machine Learning Approach | Artificial Intelligence | University of York | Amity University, Noida |
| 20. | 45574534 | Development of UG/PG research themes in Energy and Sustainability within Renewable Energy Taught courses in India and UK | Semiconductors | Teesside University | Tamil Nadu Agricultural University |
| 21. | 45495991 | Open RAN for Next-Gen 6G Communications Using AI-based Quantum Computing (abbrev: TITIAN) | Next Gen Communication | Nottingham Trent University | Indian Institute of Information Technology (IIIT) Guwahati |
| 22. | 45554398 | Multiple Access Techniques for improved Rural & Remote connectivity in Aerospace Integrated Networks | Next Gen Communication | University of Essex | Indraprastha Institute of Information Technology Delhi |
| 23. | 45577487 | DigIT (DigIT - Digital Twin Modelling of Integrated Transportation Platform) | Next Gen Communication | Middlesex University | International Institute of Information Technology, Hyderabad |