Seven scientists awarded Abdul Kalam Technology Innovation National Fellowship for 2019-2020

Abdul Kalam Technology Innovation National Fellowship instituted by INAE and SERB, institutions of Department of Science & Technology, was awarded to seven scientists to develop deployable technology for commercialization, a pilot scale for field trial worthy technology, generation of patent, creating of working model or prototype for demonstration and trials.

Those who were awarded the Fellowship are - Prof. Rohit Srivastava from Indian Institute of Technology Bombay, Prof. Pushpak Bhattacharyya from Indian Institute of Technology Patna, Prof. V Kamakoti from Indian Institute of Technology Madras, Prof. Sujatha Srinivasan from Assistive Devices, Bio Mechanics, Prof. Subhananda Chakrabarti from Indian Institute of Technology Bombay, Prof. Bikramjit Basu from Indian Institute of Science, Bangalore and Prof. DebatoshGuha from University of Calcutta, Kolkata.

Prof. Srivastava's area of specialization is Point of Care diagnostics and medical device development and his research proposal topic was - World's first self-cervix screening device titled UCan. Prof. Bhattacharyya's spans the area of Natural Language Processing (NLP), Machine Learning, Artificial Intelligence and his research proposal topic was "Shushrut"- a System for Increasing Efficiency and Diagnosis-Accuracy of Clinical Workflow in Indian Radiology using Automatic Speech Recognition and Natural Language Processing.

Area of specialization of Prof. Kamakoti and Prof. Srinivasan are Computer Science and Engineering and Assistive Devices, Bio Mechanics respectively and their research proposal topic was Design of SHAKTI based secure Micro-processor and Design and commercialization of an indigenous lever-operated orthotic knee respectively.

While Prof. Chakrabarti's interests are in Infrared Photo Detectors, Nigh Vision Devices, Compound (III-V, II –VI) Semi-Conductors, Growth (Molecular Beam Epitaxy), Quantum Dot/ T2SL Technology, Prof. Basu and Prof. Guhawork in the areas of Biomaterials, Biomedical Engineering, Materials Science & Engineering and Antenna Engineering. Prof.Chakrabarti's research proposal topic was Development of high resolution and large format (640 x 512 and 1K x 1K) prototype Thermal imagers for night vision and surveillance applications. While Prof. Basu'sresearch proposal topic was design, manufacturing, pre-clinical and clinical validation of novel metallic/ceramic dental implants, Prof. Guha's was development of Metasurface Enabled Multifunction Antennas for Medical and 5G Applications.

Indian National Academy of Engineering (INAE) and Science and Engineering Research Board (SERB), of DST instituted the "Abdul Kalam Technology Innovation National Fellowship" in the year 2017, to recognize, encourage and support translational research by individuals to achieve excellence in engineering, innovation and technology development.

Each awardee will receive Rs. 25,000 per month as fellowship amount in addition to regular income as well as a research grant of Rs.15.00 lakh per annum and an overhead of Rs.1.00 lakh per annum to the host institute.