

SwarnaJayanti Fellowships Scheme- 2020-21

Shortlisted Candidates for Presentation before Subject Area Committee in

Engineering Sciences

Date of Online/Virtual Presentation/ Meeting: **Friday, 1st October, 2021**

Time: 09.30 a.m.

S.No	Applicant Name and Institute	Title of the Proposed Project Proposal/ Temporary File No.
1.	Dr. Kumar Vaibhav Srivastava Department of Electrical Engineering, Indian Institute of Technology Kanpur, Kanpur- 208016	Design and development of multi-functional meta-surface for strategic applications DST/SJF/ET/2021/301
2.	Dr. Rishi Raj Department of Mechanical Engineering, Indian Institute of Technology Patna, Bihta, Patna- 801103	Decoding the science of boiling via bubble acoustics: Towards preemptive control of vapor explosion in industrial applications DST/SJF/ET/2021/302
3.	Dr. Praveen Kumar Department of Materials Engineering, Indian Institute of Science, Bengaluru -560012	Physics-based supervised learning for high-throughput evaluation of creep response of materials using miniaturized samples: A paradigm shift in study of mechanical behavior of bulk structures DST/SJF/ET/2021/330
4.	Dr. Uday Kumar Reddy. B Department of Computer Science and Automation, Indian Institute of Science, Bengaluru-560012	High-performance compiler infrastructure for AI/ML computations DST/SJF/ET/2021/343
5.	Dr. Mayank Shrivastava Department of Electronic Systems Engineering, Indian Institute of Science, Bengaluru-560012	A novel memory synapse technology for neuromorphic computing DST/SJF/ET/2021/359
6.	Dr. Pradeep Ramachandran Nair Dept of Electrical Engineering, Indian Institute of Technology-Bombay, Powai, Mumbai-400076	Predictive modeling for Perovskite photovoltaic systems - Reliability assessment to accelerated tests DST/SJF/ET/2021/364
7.	Dr. Sriparna Saha Department of Computer Science and Engineering, Indian Institute of Technology Patna Bihta, Patna- 801103	Design of federated meta-learning approaches for solving problems of natural language processing DST/SJF/ET/2021/367

8.	Dr. Alope Kumar Department of Mechanical Engineering, Indian Institute of Science, Bengaluru-560012	Rheometry-on-a-Chip: Multi-functional microfluidic device for rheometry of complex fluids DST/SJF/ET/2021/370
9.	Dr. Amartya Mukhopadhyay Department of Metallurgical Engineering and Materials Science, Indian Institute of Technology- Bombay, Powai, Mumbai-400076	Invoking classical metallurgical principles to lead to the development of next-generation alkali metal-ion batteries DST/SJF/ET/2021/374
10.	Dr.Sushmee Badhulika Department of Electrical Engineering, Indian Institute of Technology Hyderabad, Kandi - 502 285	Two-dimensional (2D) nanomaterials reinforced polymer hydrogel foams based flexible, micro-patterned devices for high performance, electronic applications DST/SJF/ET/2021/382