SwarnaJayanti Fellowships Scheme- 2019-20

List of Shortlisted Candidates for Presentation before National Core Committee (NCC)

Date: 13th & 14th October, 2020

Via: Video conferencing

S.No	Applicant/Candidate Name & Address	Title of the Proposed
		Project Proposal/
1	Du Daisah V Main	Temporary File No.
1.	Dr. Rajesh V. Nair	Studies on the spectral
	Department of Physics, Indian Institute of Technology-Ropar, Name of Rd Hystocianus	and temporal modification of
		spontaneous emission of
	Nangal Rd, Hussainpur, Rupnagar-140001	solid state defects using
	Kupiiagai-140001	resonant photonic
		structures
		DST/SJF/PS/2020/60
2.	Dr. Vanchiappan Aravindan	Building Better Batteries:
	Department of Chemistry,	Development of Dual-
	Indian Institute of Science Education and Research-Tirupati,	Carbon and Al-ion Battery
	Rami Reddy Nagar, Karakambadi Road, Mangalam P.O.	Prototypes from Spent Li-
	Tirupati-517507	ion Battery
		DST/SJF/PS/2020/64
3.	Dr. Basudeb Dasgupta	Neutrino Murmurations
	Department of Theoretical Physics,	and Supernova
	Tata Institute of Fundamental Research,	Explosions
	1, Homi Bhabha Road, Colaba,	
	Mumbai-400005	P.C. (O.E. (D.C. (2020) 16.6
_	D. D. ". L. W. d.	DST/SJF/PS/2020/66
4.	Dr. Rejish Nath	Engineering Quantum
	Department of Physics, Indian Institute of Science Education and Research-Pune	Matter and Quantum
		states in dipolar systems
	Dr. Homi Bhabha Road, Pune -411008	towards Quantum
	Fulle -411006	technological Applications DST/SJF/PS/2020/104
5.	Dr. Sanjib Kumar Agarwalla	Landscape of Beyond the
5.	Institute of Physics,	Standard Model Physics at
	Sachivalaya Marg,	Neutrino Experiments
	Bhubaneswar -751005	DST/SJF/PS/2020/109
6.	Dr. Anup Biswas	Analysis of nonlinear
_	Deptt. of Mathematics,	nonlocal partial
	Indian Institute of Science Education and Research-Pune,	differential equations: A
	Dr. Homi Bhabha Road,	probabilistic viewpoint
	Pune -411008	DST/SJF/MS/2020/17
7.	Dr. Hariharan Narayanan	Provable guarantees for
	School of Technology & Computer Science,	machine learning, with a
	Tata Institute of Fundamental Research,	focus on manifolds and
	1, Homi Bhabha Road, Colaba,	Lie theoretic symmetries
	Mumbai -400005	DST/SJF/MS/2020/18

S.No	Applicant/Candidate Name & Address	Title of the Proposed Project Proposal/
		Temporary File No.
8.	Dr. Mahesh Kakde	Special values of L-
	Deptt. of Mathematics,	functions
	Indian Institute of Science,	
	Bengaluru-560012	DST/SJF/MS/2020/22
9.	Dr. Vijayakumar S. Nair	What compensates the
	Space Physics Laboratory,	masking effects of
	Vikram Sarabhai Space Centre ,	aerosols on global
	Thiruvananthapuram-695022	warming
		DST/SJF/EAS/2020/33
10.	Dr. Sambuddha Misra	Role of CO ₂ in Amplifying
	Centre for Earth Sciences,	Glacial-Interglacial Cycles
	Indian Institute of Science,	DST/SJF/EAS/2020/45
	Bengaluru-560012	
11.	Dr. Angshuman Nag	Lanthanide Doping in
	Deptt. of Chemistry,	Perovskite
	Indian Institute of Science Education and Research-Pune,	Semiconductors: visible to
	Dr. Homi Bhabha Road,	infrared
	Pune -411008	electroluminescence
		DST/SJF/CS/2020/54
12.	Dr. Dibyendu Das	Sustained Autonomy in
	Deptt. of Chemical Sciences,	Out of Equilibrium
	Indian Institute of Science Education and Research- Kolkata,	Supramolecular Materials
	Mohanpur-741246	DST/SJF/CS/2020/68
13.	Dr. P. Anbarasan	Design, development and
	Deptt. of Chemistry,	application of C2-
	Indian Institute of Technology-Madras,	symmetric chiral
	Chennai -600036	cyclopentadien(on)e in
		the transition metal
		catalyzed asymmetric
		transformation
1.4	D EL L D L	DST/SJF/CS/2020/73
14.	Dr. Ekambaram Balaraman	Non-innocent Ligands for
	Deptt. of Chemistry,	Catalysis with Earth-
	Indian Institute of Science Education and Research-Tirupati,	Abundant Metals
	Rami Reddy Nagar, Karakambadi Road, Mangalam P.O, Tirupati -517507	DST/SJF/CS/2020/74
15.	Dr. Suryasarathi Bose	Large-area 'printed'
13.	Deptt. of Materials Engineering,	desalination membranes
	Indian Institute of Science,	derived from external
	Bengaluru-560012	stimulus aligned
	Dengana a Jovotz	graphene oxide liquid
		crystals
		DST/SJF/ET/2020/149
16.	Dr. Sushmee Badhulika	Development of a low cost
10.	Deptt. of Electrical Engineering,	sensor array based on
	Indian Institute of Technology-Hyderabad,	surface functionalized 2D-
	Kandi, Sanga Reddy,	MoS2 for detection of vital
	Telangana-502285	proteins and
	Totaligatia 502200	neurotransmitters in
		human fluids
		DST/SJF/ET/2020/151
		D31/3J1/L1/2020/131

S.No	Applicant/Candidate Name & Address	Title of the Proposed Project Proposal/
		Temporary File No.
17.	Dr. Chandra Shekhar Sharma	Scientific Understanding
	Deptt. of Chemical Engineering,	and Technical
	Indian Institute of Technology-Hyderabad	Development of Metal-
	Kandi, Sanga Reddy,	CO ₂ battery with CO ₂ as an
	Telangana-502285	Energy Carrier for India's
		Mars Mission
		DST/SJF/ET/2020/196
18.	Dr. Prabhu Rajagopal	Concepts for Quantum
	Deptt. of Mechanical Engineering,	Phononics
	Indian Institute of Technology-Madras, Chennai-600036	DST/SJF/ET/2020/254
19.	Dr. Gopaljee Jha	Enhancing sheath blight
	National Institute Of Plant Genome Research,	disease tolerance in rice
	Aruna Asaf Ali Marg,	DST/SJF/LS/2020/176
	New Delhi-110067	
20.	Dr. Athi Narayanan. N	Molecular Mechanisms
	Deptt. of Biotechnology,	Shaping Environment
	Indian Institute of Technology-Madras,	Sensing in Bacteria -
	Chennai -600036	Linking Microscopic
		Energetics and Dynamics
		to Stress and Pathogenic
		Response
21.	Dr. R. Mahalakshmi	DST/SJF/LS/2020/182
21.	Deptt. of Biological Sciences,	Molecular Bioenergetics and Apoptosis Regulation
	Indian Institute of Science Education and Research-Bhopal,	by Human Mitochondrial
	Bhopal Bypass Road, Bhauri,	VDAC
	Bhopal-462066	DST/SJF/LS/2020/210
22.	Dr. Biman B. Mandal	Modeling human liver
	Deptt. of Biosciences and Bioengineering,	microarchitecture and
	Indian Institute of Technology-Guwahati,	cellular physiology in
	Guwahati-781039	vitro using 3D bioprinting
		for drug toxicity and high
		throughput drug
		screening applications
		DST/SJF/LS/2020/233
23.	Dr. Sandeep Eswarappa	Therapeutic induction of
	Deptt. of Biochemistry,	translational readthrough
	Indian Institute of Science,	across muscular
	Bengaluru-560012	dystrophy-causing
		premature stop codon of
		dystrophin DMD mRNA
24.	Dr. Aprotim Magumdor	DST/SJF/LS/2020/238
44.	Dr. Aprotim Mazumder Tata Institute of Fundamental Research- Hyderabad	Single-cell level chromatin organization
	Gopanpally,	and dynamics as
	Hyderabad-500107	regulators of tissue-
	Tryacrabaa 500107	specific DNA damage
		responses, gene
		expression and cancer
		development
		DST/SJF/LS/2020/242
		DUI UU LULU LTL