

## SwarnaJayanti Fellowships Scheme- 2019-20

### Applications Received from Eligible Candidates-

#### Earth & Atmospheric Sciences

**(Applicant may inform if there is any mistake or provide missing information to [jacob@nic.in](mailto:jacob@nic.in) & [seena.raju1@gov.in](mailto:seena.raju1@gov.in) before 25<sup>th</sup> May, 2020)**

S.No	Title of the Proposed Project Proposal/ Temporary File No.	Applicant Name And Address
1.	River basin dynamics and destruction of ancient habitats - An integrated approach to study major river basins of Tamil Nadu to locate probable sites for archaeological excavations  DST/SJF/EAS/2020/27	Dr.K Balasubramani  Central University of Tamil Nadu Tiruvarur District, Nilakudi Tamilnadu-610005
2.	Understanding boundary layer transport processes underneath the monsoon low-level jet using large-eddy simulations  DST/SJF/EAS/2020/30	Dr.Shivsai Ajit Dixit  Indian Institute of Tropical Meteorology Dr. Homi Bhabha Road, Pashan, Pune Maharashtra-411008
3.	What compensates the masking effects of aerosols on global warming  DST/SJF/EAS/2020/33	Dr.Vijayakumar S Nair  Space Physics Laboratory Vikram Sarabhai Space Centre Thiruvananthapuram Kerala-695022
4.	An answer to a Long-standing Sr Imbalance Problem of the Ocean  DST/SJF/EAS/2020/34	Dr.Indra Sekhar Sen  Indian Institute of Technology-Kanpur Kanpur Nagar Uttar Pradesh-208016
5.	Mercury, Hg, in forests in India. Inventory, fluxes, reactions, stable isotopes, implications for global Hg cycle and coupling of Hg and carbon cycles  DST/SJF/EAS/2020/37	Dr.Asif Qureshi  Indian Institute of Technology-Hyderabad Kandi, Sanga Reddy Hyderabad Telangana-502285
6.	Process Understanding for Data Driven Earth System Science  DST/SJF/EAS/2020/38	Dr.Indu  Indian Institute of Technology-Bombay Powai, Mumbai Maharashtra-400076
7.	What confines arsenic to Ravi River floodplain in Punjab  DST/SJF/EAS/2020/39	Dr.Chander Kumar Singh  Teri School of Advanced Studies (Teri SAS) Plot No. 10, Institutional Area, Vasant Kunj, New Delhi Delhi-110070

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8.	Tracing Archean ocean chemistry and its evolution  DST/SJF/EAS/2020/41	Dr.Gyana Ranjan Tripathy  Indian Institute of Science Education and Research-Pune Dr. Homi Bhabha Road, Pune Maharashtra-411008
9.	Teleconnections of extreme rainfall with large-scale climate patterns  DST/SJF/EAS/2020/42	Dr.Drissia T K  Centre for Water Resources Development and Management (CWRDM), Kunnamangalam, Kozhikode Kerala-673571
10.	Life in a changing world Response of molluscan biota to Oligo-Miocene regional tectonics of India  DST/SJF/EAS/2020/43	Dr.Devapriya Chattopadhyay  Indian Institute of Science Education and Research-Pune Dr. Homi Bhabha Road, Pune Maharashtra-411008
11.	Weather regimes and concurrent droughts and heatwave events  DST/SJF/EAS/2020/44	Dr.Munir Ahmad Nayak  Indian Institute of Technology-Indore Khandwa Road, Simrol Indore Madhya Pradesh-453552
12.	Role of CO2 in Amplifying Glacial-Interglacial Cycles  DST/SJF/EAS/2020/45	Dr.Sambuddha Misra  Indian Institute of Science C. V. Raman Road Bangalore Karnataka-560012
13.	A Hybrid Deep Learning-based Air Quality Forecasting and PM2.5 Estimation Model Without Sophisticated Sensors  DST/SJF/EAS/2020/46	Dr.Lizy Abraham  L B S Institute of Technology for Women, Thiruvananthapuram Poojappura P O, Thiruvananthapuram Kerala-695012
14.	Exposure assessment and societal impact of toxic GenX and other perfluoroalkyl compounds in India, including an eco-friendly approach for the efficient removal and degradation for onsite water and wastewater treatment  DST/SJF/EAS/2020/47	Dr.Gopala Krishna Darbha  Indian Institute of Science Education and Research-Kolkata Mohanpur, Nadia West Bengal-741246
15.	Developing low cost microbial technique for mitigation of CH4, N2O and CO2 emission from rice field  DST/SJF/EAS/2020/50	Dr.Namita Das Saha  Indian Agricultural Research Institute, Hill Side Road, Pusa, New Delhi Delhi-110012

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16.	Development of a global emission inventory and future projections for the climatically sensitive oceanic trace gas dimethyl sulfide DMS  DST/SJF/EAS/2020/51	Dr.Anoop Sharad Mahajan  Indian Institute of Tropical Meteorology, Dr. Homi Bhabha Road, Pashan, Pune Maharashtra-411008
17.	Effects of ocean deoxygenation and acidification on benthic polychaetes  DST/SJF/EAS/2020/52	Dr.Suhas Shetye  CSIR National Institute of Oceanography Raj Bhavan Road, Dona Paula Goa-403002
18.	Development of Silica Nanohybrids Based Formulation to Improve Recovery from Marginal Oil Wells  DST/SJF/EAS/2020/53	Dr.Akhil Agrawal  Central University of Rajasthan NH-8, Bandar Sindri, Dist-Ajmer, Rajasthan-305817
19.	Shock processing of astrochemical ices  DST/SJF/EAS/2020/54	Dr.Bhalamurugan Sivaraman  Physical Research Laboratory Navrangpura, Ahmedabad Gujarat-380009