



Government of India, Department of Space  
 Indian Institute of Space Science and Technology  
 [Declared as Deemed to be University under Sec.3 of the UGC Act 1956]  
 Valiamala PO, Thiruvananthapuram -695 547, Kerala



**Application for Project Fellow (Online Application only)**

Indian Institute of Space Science and Technology (IIST) invites application for the following project fellows positions to work in the different Research Projects:

Sl. No.	Category No.	Qualification / Skill	Project Title	No. of Position
<b>Junior Research Fellow (JRF)</b>				
1	JRF 17	M.Sc in Physics/ Astrophysics/ Astronomy/Space Sciences or BS / MS in Physics or equivalent/ MS in Astronomy and Astrophysics with GATE / JEST score in Physics or UGC-CSIR NET in Physical Sciences.	Max Planck Partner Group for Galactic Star Formation	1
2	JRF 18	M.Sc in Physics / Astrophysics /Astronomy / Space Sciences or BS-MS in Physics or equivalent with GATE / JEST score in Physics or UGC-CSIR NET in Physics	Study of Gamma Ray Bursts with a focus on their radio afterglows. (SERB-Extra Mural Research Fund)	1
3	JRF 19	M. Tech in Microelectronics/ Nano electronics/ Microsystems/ Solid State Technology/ Electronic Design Technology or equivalent areas. Candidates should have GATE / JEST score or UGC-CSIR NET	Investigation of 2-D ThinFilm Transistor for MEMS and Nanomechanical Sensors (SERB-Extra Mural Research Fund)	1
4	JRF 20	M.Sc in Chemistry or related area	Superionic conductor as electrolytes for all solid-state-lithium sulfur batteries	1
<b>Senior Project Fellow (SPF)</b>				
5	SPF 40	ME / M.Tech or M.Sc (Engg) or MS in Electrical Engineering / Power Electronics Engineering / Electrical and Electronics Engineering / Instrumentation Engineering / Control Engineering or related areas. <b>Desirable:</b> Experience in MATLAB / Simulink, Electric Machine, Embedded Systems. <b>Preference:</b> DSP and FPGA Programming Inverters	Decoupled Control Scheme for Dual Permanent Magnet Machine Actuators	1

6	SPF 41	ME / M.Tech degree in Electronics and Communication Engineering, Computer Science Engineering or Information Technology with research exposure in Computer Networks, Network Security, complex Networks and other closely related areas <b>Desirable:</b> Good Programming skills in C/C++/ Matlab and Good research experience proven with research publications.	Research and Development of an Integrated Enterprise network security system	1
7	SPF 42	ME / M.Tech / MS degree in Image Processing / Signal Processing / Computer Vision / Machine Learning / Applied Maths or related areas	Development and Analysis of Image Fusion Techniques for Satellite Images	1
8	SPF 43	ME / M.Tech in VLSI and Microsystems / Microelectronics/ Solid State Technology or related areas. Basis degree should be in BE / B.Tech Electronics and Communication Engineering/ Electrical and Electronics Engineering and related areas. Desirable: Experience in MEMS/ Microsystems/ Nanoelectronics Design/ Fabrication of MEMS or Semiconductor device.	Development of MEMS Accelerometer with Ultra Sensitive Transductors for Space Applications	1
<b>Junior Project Fellow (JPF)</b>				
9	JPF 51	BE / B.Tech in Electronics and Electrical Engineering, Electronics and Communication Engineering or related areas with power electronics as one of the core courses. Desirable:- ME/M.Tech in Power electronics or related areas . Experience in design and fabrication of power electronic converters	Retarding Potential Analyzer for the observation of Martian Ionospere	1
10	JPF 52	M.Sc / MS in Physics / Atmospheric Science or equivalent, BS-MS (Dual Degree) in Physics or related areas, B.Tech in Engineering Physics, Mechanical, Electrical and Electronics, Electronics and Communication or related areas. <b>Desirable:</b> NET / GATE in relevant area <b>Skills:</b> Computer Programming in C / C++ / Fortran / Matlab	Development of a three - dimensional first principle ionospheric model for the equatorial and low latitude ionospheric regions.	1
11	JPF 53	MS / Msc in Physics / Electronic / Material Science / Engineering Physics. <b>Desirable:</b> Hands on expereince in material synthesis and characterization rechniques.	Surface Engineering Techniques for improving the life	1
12	JPF 54	MS / Msc in Physics / Electronic / Material Science/Engineering Physics, or B.Tech in Electronics / Avionics/ Instrumentation. <b>Desirable:</b> Aptitude for constructing vaccum systems and associated instrumentation.	and performance of ball bearings in ISRO space craft mechanisms	1

**Age limit:** 35 years as on 14.12.2017 (Age relaxation as per Government of India rules).

**Remuneration per month (Consolidated):**

Catogory Code	Remuneration
SPF 40 – SPF 43	Rs. 22,000/-
JPF 51 & JPF 52	Rs. 20,000/- + HRA

JPF 53, JPF 54 & JRF 20	Rs. 20,000/-
JRF 17 – JRF 19	Rs. 25,000/- + HRA

**General Conditions/ Instructions:**

- 1) Only Indian Nationals need apply.
- 2) All degrees mentioned above should be in FIRST CLASS.
- 3) The tenure of the position is for a period of One year or co-terminus with the project whichever is earlier. The tenure is extendable on performance and need basis subject to availability of funds.
- 4) The Institute reserves the right to terminate the appointment at any time before completion of the tenure / project, if it so decides.
- 5) Application received online only will be considered for processing under any circumstances.
- 6) The applicants will not be allowed to make any changes in the profile registration once submitted . Hence utmost care should be taken by the candidates while filling the profile.
- 7) Facility for **online submission** of application will be **available from 01.12.2017 (1500hrs onwards) to 14.12.2017(upto1700hrs)**.
- 8) A 'No Objection Certificate' from the employer concerned is required in respect of those applicants who are employed under Central/State Government/Public Sector Undertakings/ Autonomous Bodies.
- 9) Only short listed candidates will be called for written test/interview, as the case may be, based on merit.
- 10) Candidates shortlisted for written test / interview will be intimated through e-mail id mentioned in their online application.
- 11) Shortlisted candidates belonging to SC/ST/OBC/PWD should produce copies of the relevant certificates issued by the Competent Authority to that effect.
- 12) Outstation candidates called for interview will be paid 'to and fro' Second class Railway Fare by the shortest route including reservation / sleeper charges on production of proof of journey such as Railway Tickets / Bus Tickets, etc. If the candidates travel in higher class of accommodation than the one prescribed, only Second class rail fare excluding the reservation charges / sleeper charges will be paid. The applicants are advised to make their own arrangements for their stay at Thiruvananthapuram, at their cost.
- 13) No interim correspondence will be entertained.
- 14) Canvassing in any form will be a disqualification.
- 15) Government strives to have a work force which reflects gender balance and women candidates are encouraged to apply.
- 16) Candidates who are selected for the positions have to join IIST by the specified date.
- 17) Project fellows are not entitled for hostel facility at IIST.
- 18) Candidates are advised to refer the IIST website <https://www.iist.ac.in/career/3> for any updates.

**Advt. No. IIST/Admn/RMT/18/2017 dated 30/11/2017**