



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 STAFF (ONLINE APPLICATION ONLY)

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

Sl. No.	Category No.	Qualification / Skill	Project Title	No. of positions
Junior Research Fellow				
1	JRF-01/2019	BE / B.Tech in Engineering Physics, MSc Physics with flare for programming and a keen interest in writing computer programs and simulations, Dual degree in Physics (Integrated BS/MS or dual degree). Desirable:- 1. Good programming skill 2. Willing to work in all aspects of modeling / simulation of ionosphere. 3. Willing to learn such systems / topics from open resources. 4. Willing to travel at short notice to anywhere in india for research work and data collection	A study on the effects of Ionospheric variabilities on the usability of NavIC / GAGAN using observations and models.	2
2	JRF-02/2019	BE / B.Tech in Electronics and Communication (or subject related to communication). Desirable:- 1. Good programming skill 2. Experience in FPGA / DSP/ Embedded systems based applications or related areas in reputed R&D institution or industry. 3. Digital design / VLSI and knowledge in communication system designed. 4. Experience working on GNSS based receives like IRNSS / GPS etc. 5. Willing to work in all aspects of design / development and fabrication of IRNSS navigation receivers 6. Willing to learn such systems / topics from open resources. 7. Willing to travel at short notice to anywhere in india for work and data collection.	Design and Development of NavIC Receiver	3

Sl. No.	Category No.	Qualification / Skill	Project Title	No. of positions
Senior Project Fellow				
3	SPF-01/2019	BE / B.Tech in Avionics / Electronics and Communication Engineering / Electrical and Electronics Engineering / Computer Science or related areas. Desirable:- M.E / M.Tech / M.S in Image Processing / Signal Processing / Computer Vision / Machine Learning or Applied Maths or related areas.	Developing of Virtual reality model for disaster simulation	1
4	SPF-02/2019	ME / M.Tech / MS in Mechanical / Aerospace Engineering or related areas Desirable:- Experience in performing thermal engineering, basic simulations of thermal engineering problems using commercial CFD software. Exposure to optical and laser diagnostics experiments like Schlieren and Mie Scattering visualisation. Exposure to simulation of cold / reacting flow using softwares such as FLUENT / CFD++/OPENFOAM	Experimental investigation of laminar burning velocity of pre-mixed Isrosene / air / Oxygen mixtures using freely expanding spherical flames.	1
5	SPF-03/2019	ME / M.Tech /MS in Mechanical / Aerospace / Aeronautical / Civil / Materials or related areas. Knowledge of Mechanics of Composite materials and Fracture Mechanics is essential.	Studies on crack propagation in composites by Micro Raman Spectroscopy	1
Junior Project Fellow				
6	JPF-01/2019	M.Sc in Physics / Electronics or related areas.	Atom Interferometry based sensor	1
7	JPF-02/2019	MS / M.Sc in Physics / Electronics / Material Science / Engineering Physics or B.Tech in Electronics / Avionics / Instrumentation. Desirable:- Hands on experience in material synthesis and characterization techniques.	Surface engineering techniques for improving the life and performance of the ball bearings systems in ISRO spacecraft mechanisms	1

Sl. No.	Category No.	Qualification / Skill	Project Title	No. of positions
8	JPF-03/2019	BE/B.Tech in Avionics / Electronics and Communication / Electrical and Electronics or related areas. Desirable:- The candidates should be good with electronic circuit design, multilayer layout design, PCB fabrication and familiar with programming languages C/C++, modeling and analysis software Matlab / Simulink and should have a good academic background.	Mirror Satellite for Autonomous Assembly of Reconfigurable Space Telescope.	1

Age limit: 35 years as on 12.03.2019

Remuneration per month (Consolidated):

Category Code	Remuneration
JRF-01 & 02/2019	Rs. 25,000/- + HRA
SPF-01/2019 to 03/2019	Rs. 22,000/-
JPF-01/2019 to 03/2019	Rs. 20,000/-

General Conditions/ Instructions:

1. Only Indian Nationals need apply.
2. All degrees mentioned above should be in FIRST CLASS. Candidates should possess the required qualification as on the last date for receipt of application.
3. Candidates are advised to upload the relevant mark sheets and the Degree/ PG certificate at the time of registering the online application.
4. 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.
5. The Institute reserves the right to terminate the appointment at any time before completion of the tenure / project, if it so decides.
6. Application received online only will be considered for processing under any circumstances.
7. 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.
8. Facility for **online submission** of application will be **available from 19.02.2019 (1600hrs onwards) to 12.03.2019 (upto1700hrs)**.

9. 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.
10. Only short listed candidates will be called for written test/interview, as the case may be, based on merit.
11. 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.
12. Government strives to have a work force which reflects gender balance and women candidates are encouraged to apply.
13. Candidates who are selected for the positions have to join IIST by the specified date.
14. Project Fellows are not entitled for hostel facility at IIST.
15. Candidates are advised to visit the IIST website <https://www.iist.ac.in/career/3> for any updates on latest status of their application.
16. No interim correspondence will be entertained.
17. Canvassing in any form will be a disqualification

Advt. No. IIST/Admn/RMT/02/2019 dated 19.02.2019