



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 Research/ Project Fellow (Online Application only)

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

Sl. No.	Category No.	Educational Qualification / Skill	Project Title	No. of positions
Senior Research Fellow				
01	SRF-02/2022	M.Sc or equivalent in Zoology / Genetics / Entomology / Molecular Biology / Biotechnology/ Biosciences or related areas with minimum two years of research experience in Molecular Biology or Life Science research. <u>Desirable:-</u> Research experience in handling and culturing of Drosophila melanogaster	Spaceflight – induced changes in kidney stone formation in Drosophila melanogaster (Gaganyaan Project)	01
Junior Research Fellow				
02	JRF-05/2022	M.Sc in Mathematics / Applied Mathematics or equivalent. OR MS in Mathematics or equivalent. <u>Desirable: -</u> 1. CSIR-NET / GATE in Mathematics. 2. Experience in Computer Programming 3. Good knowledge of mathematical software such as Python, MATLAB etc. 4. Good knowledge in Numerical Analysis, Partial Differential Equations and finite element analysis.	Note: The selected candidate can register for IIST PhD programme subject to fulfilment of eligibility conditions for PhD admission in IIST. For further information in this regard please refer to https://www.iist.ac.in/admissions/phd/regular Development of novel numerical techniques for miscible displacement problems in porous media (DST-SERB Project)	01
03	JRF-06/2022	M.Sc in Mathematics / Applied Mathematics / BS-MS in Mathematics or equivalent. <u>Desirable: -</u> 1. Valid UGC-CSIR-NET-JRF / Lectureship / Fellowship or NBHM/JEST/GATE. 2. Good knowledge in Advanced Functional Analysis and Partial Differential Equations. 3. Knowledge of computational methods and programming skills in C/C++/Python/ MATLAB.	Parameter Identification for Diffuse Interface Models Describing Multiphase Fluids (DAE/NBHM Project)	01

Contd...2/-

Junior Project Fellow				
Sl. No	Category No.	Educational Qualification / Skill	Project Title	No. of positions
04	JPF-01/2022	M.Sc in Physics / B.Tech in Engineering Physics / BS-MS in Physics.	Sensor & payload development	01
05	JPF-02/2022	B.E / B.Tech in Electronics Engineering / Electronics and Communication Engineering / Power Electronics.	Retarding potential analyzer for future space explorations	01
06	JPF-03/2022	M.Sc in Physics / B.Tech in Engineering Physics / BS-MS in Physics		01
07	JPF-04/2022	B.E / B.Tech in Electronics and Communication Engineering / Avionics or related areas. <u>Desirable:-</u> Knowledge of circuit design, PCB layout design, testing & debugging of electronics, embedded systems development, data analysis of scientific data from the payload etc.		02
08	JPF-05/2022	B.E / B.Tech in Electronics and Communication Engineering / Avionics / Engineering Physics, M.Sc Physics / Electronics or related areas. <u>Desirable:-</u> Knowledge of RF systems, SDR based systems and Embedded systems development, data analysis of science data from the payload etc. Note: The duty includes night duty also.		02
09	JPF-06/2022	B.E / B.Tech in Mechanical Engineering / Aerospace Engineering or related areas. <u>Desirable:-</u> Knowledge in modelling and analysis of mechanical systems related to spacecraft systems. The candidates shall be familiar with thermal analysis of these systems. Hands on experience in CAD/FE/Thermal analysis tools to generate solid and FE model assembly and familiarity with manufacturing aspects.		01
10	JPF-07/2022	B.E / B.Tech in Mechanical Engineering / Aerospace Engineering or related areas. <u>Desirable:-</u> Knowledge in modelling and analysis of mechanical systems related to spacecraft systems, propulsion systems, fluid dynamics and compressible flow. The candidate should be able to perform flow analysis, simulations and through various components of the thruster system including valves, heating unit and nozzle assembly. Also hands on experience in designing mechanical systems involved in force, torque and moment measurements is preferred.		01

Age limit: 35 years as on 10.10.2022.

Remuneration per month consolidated

Category code	Monthly Remuneration
SRF-02/2022	Rs. 35,000/- + HRA
JRF-05/2022	Rs. 31,000/-
JRF-06/2022	Rs. 31,000/- + HRA
JPF- 01-07/2022	Rs. 23,000/-

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 certificates such as mark sheets, Degree/ PG/PhD certificate, experience certificate etc., at the time of registering the online application.
4. The tenure of the SRF/JRF/JPF is for a period of One year or co-terminus with the project whichever is earlier. 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 22.09.2022 to 10.10.2022 (upto 1700hrs)**.
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. Candidates possessing advertised qualification, skill, experience etc., alone will be allowed to attend the written test/interview.
11. Government strives to have a work force which reflects gender balance and women candidates are encouraged to apply.
12. Candidates who are selected for the positions have to join IIST by the specified date.
13. SRF/JRF/JPF is not entitled for hostel facility at IIST.
14. Candidates are advised to visit the IIST website <https://www.iist.ac.in/career/3> for any updates on latest status of their application.
15. No interim correspondence will be entertained.
16. Canvassing in any form will be a disqualification.