



Indian Centre for Space Physics

[Autonomous Institute registered under Section 25, The Company Act1956]

466 Barakhola, Netai Nagar, Kolkata 700099

Webpage - <http://csp.res.in>, Email – root@csp.res.in

Ref. No. ICSP/Rec/Engineer/25-26/2

Recruitment Notification for Various Positions

Date: 26/11/2025

The Indian Centre for Space Physics invites applications for the posts of **Propulsion Engineer and Electronics Engineer**.

Sl. No,	Name of the Post	Essential educational qualification	Number of Vacancy	Job Description	Desirable Skills	Job location	Salary
1	Propulsion Engineer	B.E. / B.Tech in Mechanical Engineering with a minimum of 60% marks from a recognized university/institute.	1	The selected candidate will assist in rocket propulsion unit development, including mechanical design and analysis, work with solid/liquid/hybrid systems, and support in assembling, testing, and evaluating nozzles, combustion chambers, turbopumps, valves, and other high-pressure components. Responsibilities also include thermal, structural, and flow analysis, mechanical integration with test stands or vehicle structures, and adherence to safety protocols for high-pressure and high-temperature operations.	The candidate should have knowledge of rocket propulsion, thermodynamics, heat transfer, and fluid mechanics, with familiarity in solid, liquid, or hybrid systems. Preferred skills include work with nozzles, combustion chambers, turbopumps, valves, and other high-pressure parts; proficiency in CAD and simulation tools (SolidWorks, CATIA, ANSYS, MATLAB, CFD); and experience in propulsion testing, mechanical integration, and safety procedures for high-pressure and high-temperature environments.	Integrated Campus, Kolkata	As per the Experience
2	Electronics Engineer	B.E. / B.Tech in Electronics and Telecommunication Engineering	1	The selected candidate will work on the development, testing, and integration of electronic systems involving FPGA-based design, telemetry interfaces, embedded platforms, and data acquisition modules. The role includes designing and implementing digital logic using VHDL/Verilog on FPGA devices, developing microcontroller-based control systems, interfacing sensors and actuators, and working with communication protocols for data	The candidate should have proficiency in C/C++ and basic Python, along with experience in MATLAB or LabView. Strong understanding of FPGA development using VHDL/Verilog, microcontroller programming, and embedded systems is desirable. Familiarity with internal communication protocols such as UART, SPI, I2C, CAN, and RS-485, as well as fundamental knowledge of digital communication and modulation techniques like BPSK, QPSK, and FSK, is expected. Experience with sensor and actuator interfacing, data acquisition, debugging of electronic circuits, and platforms such as Arduino or	Integrated Campus, Kolkata	As per the Experience

				transmission. The candidate will support the design, debugging, and testing of electronic circuits, signal conditioning units, and telemetry hardware, as well as contribute to software development in C/C++ and Python for embedded or data processing applications.	Raspberry Pi will be beneficial. Additional exposure to telemetry concepts (PCM telemetry, TM/TC), RF communication in UHF/VHF/S-band, signal processing, error-correction techniques, or advanced topics such as CCSDS standards, ROS, machine learning, or computer vision will be considered an added advantage.		
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Note: Eligible candidates are requested to send their up-to-date bio-data to application.icsp@gmail.com and icspdirector@gmail.com. Candidates are also requested to mention the post name and/or research area in the subject line.

ICSP will invite (by email) the short-listed candidates for interview. Candidates should bring all original credentials at the time of interview.

Deadline for Application: 8/12/2025

General Terms and Conditions

- Fulfilling of the required qualification and experience will not confer any right to the candidates for the post. Decision of the institute will be final.
- The age and experience can be relaxed for the candidates with brilliant academic record and experiences.
- Centre reserves the right to withdraw the advertisement at any time without assigning any reason.
- Applicants who are employed in Government, Semi-Government Organizations or Institutions should send their applications **THROUGH PROPER CHANNEL** else they will be required to produce a **NO OBJECTION CERTIFICATE** from their employer at the time of interview.
- Incomplete applications will be rejected.

Director