

ADVERTISEMENT NO. VSSC-313 DATED 14.12.2019
INVITES ONLINE APPLICATIONS FOR THE FOLLOWING POSTS

POST : SCIENTIST / ENGINEER-SD [LEVEL 11(` 67,700 - ` 2,08,700)]				
Post Code	No. of posts	Essential qualifications	Physical Requirements	Nature of job
1436	01	1. Ph.D in Physics with specialisation in Atmospheric /Space Science with 2. M.Sc. or equivalent in Physics.	S, ST, W, BN, L, MF, RW, SE, H, C	R&D in Atmospheric and Space Science involving experimental developments including handling of chemicals and delicate instruments.
1437	05	1. Ph.D in Physics/ Atmospheric Science/ Meteorology / Space Science / Planetary Science with 2. Post-Graduation in Physics/Atmospheric Science/Space Science OR Graduation/Post Graduation in Engineering.	S, ST, W, BN, L, MF, RW, SE, H, C	Research and Development in the area of Atmospheric /Space/Planetary Sciences. The work will focus on theoretical studies/ modelling/ experiment development and exploration (including ground-based and space borne systems)/ development of remote sensing inversion techniques. Specific areas of research cover the following topics: aerosols; atmospheric physics and chemistry; meteorology; atmospheric spectroscopy; radiation transfer; numerical atmospheric modelling; boundary layer physics; clouds;atmospheric dynamics; LIDAR and radar based atmospheric probing; development of inversion techniques for satellite remote sensing in visible, IR and microwave domains for retrieval of atmospheric parameters and constituents; ionospheric and magnetosphericphysics; space weather and modelling; plasma physics; energetic particles and radiation; planetary and cometary observations and modelling; development of satellite payloads for direct observations and remote sensing; atmospheric measurement techniques. The activities involve strong inter-disciplinary research.
1438	03 (VH-01 Low Vision)	1. Ph.D in Aerospace with 2. M.E / M.Tech or equivalent in Aerospace / Aeronautical / Mechanical Engineering and 3. B.E / B.Tech or equivalent in Aerospace / Aeronautical / Mechanical Engineering.	BLA, C, CL, CRL, HH, LV, MF, RW, S, SE, ST, W	Computational Methods for aeroacoustics with experience in Large Eddy Simulation/ Direct Numerical simulation. Experience in experimental aerodynamics in high enthalpy/hyper velocity testing techniques.Expected to develop/work in stress wave balance/free piston shock tunnel/ hypervelocity impact
1439	01	1. Ph.D in Microelectronics with 2. M.E / M.Tech or equivalent in Microelectronics and 3. B.E / B.Tech or equivalent in Electrical & Electronics / Applied Electronics & Instrumentation / Instrumentation Engineering	BLOA, C, CL, CRL, H, JU, KC, L, MF, PP, RW, S, SE, ST, W	Design & Development of Embedded Systems (Microelectronics)
1440	01	1. Ph.D in Dynamics modelling and control of aerospace vehicles with 2. M.E / M.Tech or equivalent in Flight Mechanics / Systems & Control / Control Systems / Guidance & Control / Aerospace / Control Engineering & Instrumentation / System Science & Automation and 3. B.E / B.Tech or equivalent in Electrical / Electronics / Electronics & Communication / Aerospace / MechancialWith Courses In Control Engg	BLOA, C, CL, CRL, H, JU, KC, L, MF, PP, RW, S, SE, ST, W	Guidance and control algorithm design and analysis for launch vehicle and reusable/re-entry vehicles, Control of propulsion systems, autonomous robotic vehicles.
1441	01	1. Ph.D in Structural Analysis of Composite Hardware with 2. M.E / M.Tech or equivalent in Aerospace / Aeronautical / Mechanical Engineering and 3. B.E / B.Tech or equivalent in Aerospace / Mechanical Engineering.	BA, BL, BN,C, CL, CRL, H, JU, KC, L, MF, PP, RW, S, SE, ST, W	Structural analysis of filament wound products with and without metallic liners, cryo tankages etc
1442	01	1. Ph.D in Metallurgy / Material Science with 2. M.E / M.Tech or equivalent in Metallurgy / Material Science and 3. B.E / B.Tech or equivalent in Metallurgy / Material Science / Mechanical / Production Engineering. OR M.Sc. or equivalent in Material Science	BA, BL, BN,C, CL, CRL, H, JU, KC, L, MF, PP, RW, S, SE, ST, W	Mathematical Modelling, Simulations of Metallurgical and/or Metal Forming processes
1443	01	1. Ph.D in Metallurgy / Material Science (Ceramic Technology) with 2. M.E / M.Tech or equivalent in Metallurgy / Material Science and 3. B.E / B.Tech or equivalent in Metallurgy / Material Science / Mechanical / Production Engineering. OR M.Sc. or equivalent in Material Science / Physics	BA, BL, BN,C, CL, CRL, H, JU, KC, L, MF, PP, RW, S, SE, ST, W	Development of Glasses and Glass Ceramics
1444	02	1. Ph.D in Chemical Engineering with 2. M.E / M.Tech or equivalent in Chemical Engineering and 3. B.E / B.Tech or equivalent in Chemical Engineering.	BLA, S, ST, W, BN, CL, L, KC, MF, RW, PP, SE, H, C	Modeling of fuel cell stack and optimization of next generation stack components; Design and development of porous separator plates for non-flow through fuel cell stack; development of high power density electrodes. Process modelling & Simulation of Polymer Processes, Development of advanced thermal protection systems; Modelling, Simulation and Development of CNT/Nano materials based composites.
1445	01	1. Ph.D in Polymer Technology with 2. M.E / M.Tech or equivalent in Polymer Technology and / OR 3. M.Sc. or equivalent in Chemistry / Polymer Chemistry.	S, ST, W, BN, CL, L, KC, MF, RW, SE, H, C, BLA, PP	Processing of advanced polymers such as Ultrahigh Molecular Weight Polyethylene (UHMWPE), polyetherether ketone (PEEK), high density polyethylene (HDPE) etc and their composites & other polymer processing activities of launch vehicles and satellites.
1446	01	1. Ph.D in Chemistry (Molecular Modelling) with 2. M.Sc. or equivalent in Chemistry / Material Science.	S, ST, W, BN, L, MF, RW, SE, H, C, BLA,	Molecular modelling & Molecular dynamics simulations

1447	01	1. Ph.D with specialisation in Experimental Cold Atoms / Cold Atom Chips / Cold Ion Traps / Bose Einstein Condensate with 2. M.E / M.Tech or equivalent in Opto Electronics / Optical Engg / Solid State Physics / Engg Physics OR M.Sc. or equivalent in Physics	BA, BL, BN, C, CL, CRL, H, JU, KC, L, MF, PP, RW, S, SE, ST, W	Design and development of Cold Atom based Navigation systems
POST : SCIENTIST / ENGINEER-SC [LEVEL 10(` 56,100 - ` 1,77,500)]				
Post Code	No. of posts	Essential qualifications	Physical Requirements	Nature of job
1448	10	1. M.E / M.Tech or equivalent in Industrial Engineering and 2. B.E / B.Tech OR equivalent in any Branch of Engineering	BLOA, C, CL, CRL, H, JU, KC, L, MF, PP, RW, S, SE, ST, W	Programme planning, Production planning and launch vehicle project management.
1449	07	1. M.E / M.Tech or equivalent in Control Systems Engineering / Control & Instrumentation / Control & Guidance / Control & Computing / Control & Automation / Systems & Control Engineering and 2. B.E / B.Tech or equivalent in any Branch of Engineering	BLOA, C, CL, CRL, H, JU, KC, L, MF, PP, RW, S, SE, ST, W	Launch vehicle dynamics modelling and simulations, development of flight software in embedded systems with Real Time Operating System. Optimal & robust control and guidance algorithm development, trajectory analysis and analysis tool development, simulation package development & mathematical modelling of control power plant for launch vehicles
1450	02	1. M.E / M.Tech or equivalent in Industrial Safety Engineering 2. B.E / B.Tech or equivalent in Mechanical Engineering / Industrial Engineering / Chemical Engineering / Electrical Engineering / Electrical & Electronics Engineering	S, ST, W, BN, L, KC, JU, CRL, CL, MF, RW, SE, H, C, PP, BLA	Safety inspection / audit of facilities and construction sites. Surveillance / supervision of hazardous activities. Risk assessment and Safety Studies for operations, process facilities. Analysis / Investigation of near miss incidents and accidents. Design of fire detection and protection systems for new facilities. Conducting safety training and motivational programmes. Preparation of safety guidelines for operations / processes / equipments.
1451	01	1. M.E / M.Tech or equivalent in Material Science & Engineering / Material Engineering / Surface Engineering and 2. B.E / B.Tech or equivalent in Mechanical Engineering.	S, ST, BN, KC, W, MF, SE, PP, L, C, RW, H	Plan, design, analyze, develop and realize Tribological process and thin film coating for sensors and actuators.
1452	02	1. M.E / M.Tech or equivalent in Aerospace Engineering / Aeronautical Engineering and 2. B.E / B.Tech or equivalent in Mechanical / Aerospace / Aeronautical Engineering.	BLOA, C, CL, CRL, H, JU, KC, L, MF, PP, RW, S, SE, ST, W	Computational and experimental fluid dynamics, aero-elastic analysis.
1453	06 (OH-01)	1. M.E / M.Tech or equivalent in Machine Design and 2. B.E / B.Tech or equivalent in Mechanical / Aerospace / Aeronautical Engineering.	BLOA, C, CL, CRL, H, JU, KC, L, MF, PP, RW, S, SE, ST, W	Aerospace hardware design, including composite, finite element analysis, fracture analysis, aero-elastic analysis and structural dynamics.
1454	01	1. M.E / M.Tech or equivalent in Propulsion and 2. B.E / B.Tech or equivalent in Mechanical / Aerospace / Aeronautical Engineering.	BA, BL, BN, C, CL, CRL, H, JU, KC, L, MF, PP, RW, S, SE, ST, W	Solid rocket motor design and performance analysis
1455	01	1. M.E / M.Tech or equivalent in Manufacturing Engineering and 2. B.E / B.Tech or equivalent in Mechanical / Production Engineering.	BA, BL, BN, C, CL, CRL, H, JU, KC, L, MF, PP, RW, S, SE, ST, W	Metrology, CAM, facility management
1456	02	1. M.E / M.Tech or equivalent in Non Destructive Testing and 2. B.E / B.Tech or equivalent in Mechanical / Metallurgy / Aerospace / Aeronautical / Material Science / Production Engineering.	BA, BL, BN, C, CL, CRL, H, JU, KC, L, MF, PP, RW, S, SE, ST, W	Radiographic analysis of aerospace components
1457	02	1. M.E / M.Tech or equivalent in Metallurgy / Material Science and 2. B.E / B.Tech or equivalent in Mechanical / Metallurgy / Material Science / Production Engineering.	BA, BL, BN, C, CL, CRL, H, JU, KC, L, MF, PP, RW, S, SE, ST, W	Development of materials for aerospace application including ceramics, composites & optical glasses.
1458	01	1. M.E / M.Tech or equivalent in Computer Science and 2. B.E / B.Tech or equivalent in Electronics & Communication Engineering / Computer Science & Engineering / Information Technology. OR M.Sc. or equivalent in Mathematics / Physics	BLOA, C, CL, CRL, H, JU, KC, L, MF, PP, RW, S, SE, ST, W	Development of all support software for launch vehicle applications
1459	01	1. M.E / M.Tech or equivalent in Electrical Machines and 2. B.E / B.Tech or equivalent in Electronics & Communication Engineering / Electrical Engineering.	BA, BL, BN, C, CL, CRL, H, JU, KC, L, MF, PP, RW, S, SE, ST, W	Design and realisation of electric motors and components for aerospace applications

1460	02	1. M.E / M.Tech or equivalent in Digital Signal Processing/ Image Processing/ Computer Science and 2. B.E / B.Tech or equivalent in Electronics & Communication /Computer Science/Applied Electronics/Electrical & Electronics Engineering or equivalent.	BLOA, C, CL, CRL, H, JU, KC, L, MF, PP, RW, S, SE, ST, W	Development of image processing functions, digital zoom algorithms, real time display software & image processing software
1461	01	1. M.E / M.Tech or equivalent in VLSI and 2. B.E / B.Tech or equivalent in Electronics & Communication Engineering.	BLOA, C, CL, CRL, H, JU, KC, L, MF, PP, RW, S, SE, ST, W	Design & Verification of ASICs and FPGAs
1462	01	1. M.E / M.Tech or equivalent in RF Engineering / Microwave Engineering / Radar Engineering and 2. B.E / B.Tech or equivalent in Electronics & Communication Engineering.	BLOA, C, CL, CRL, H, JU, KC, L, MF, PP, RW, S, SE, ST, W	Development of RF Systems
1463	01	1. M.E / M.Tech or equivalent in Polymer Technology/ Engineering and 2. B.E / B.Tech or equivalent in Chemical Engineering / Polymer Technology. OR M.Sc. or equivalent in Chemistry / Polymer Chemistry.	BA, BL, BN, C, CL, CRL, H, JU, KC, L, MF, PP, RW, S, SE, ST, W	Development of Cryogenic insulation systems, smart polymer & shape memory polymers.
1464	01	1. M.E / M.Tech or equivalent in Chemical Engineering and 2. B.E / B.Tech or equivalent in Chemical Engineering.	BLA, S, ST, W, BN, CL, L, KC, MF, RW, PP, SE, H, C,	Chemical reaction engineering with expertise in modelling & simulation. Development of rocket propellant materials involving experiments, testing and analysis
1465	04 (VH-01- (Low Vision))	M.Sc. or equivalent in Mathematics / Applied Mathematics.	S, ST, BN, KC, W, MF, SE, PP, L, C, RW, H	Plan, design, analyze, develop and realize mathematical models, algorithm and software for Navigation Systems.
ONE out of the 04 vacancies is a backlog vacancy of PWBD (VH- Visually Handicapped) category. If VH candidate is not available, UR (Un-reserved) candidates will be considered for the post and the reservation for VH will be carried forward.				
1466	01	M.Sc. or equivalent in Chemistry with specialisation in Polymer Chemistry OR M.Sc. or equivalent in Polymer Chemistry	S, ST, W, BN, CL, L, KC, RW, MF, PP, SE, C, H	Development and production of polymers and ceramic matrix composites.
1467	06 (HH-01)	B.E / B.Tech or equivalent in Chemical Engineering.	S, ST, W, BN, CL, MF, PP, RW, SE, C, H, L, KC	Planning and supervision of chemical processes in laboratory level and pilot plants. Design of chemical process equipment, development and scale up of new processes for producing polymers and materials for space applications
ONE out of the 06 vacancies is a backlog vacancy of PWBD (HH- Hearing Handicapped) category. If HH candidate is not available, UR (Un-reserved) candidates will be considered for the post and the reservation for HH will be carried forward.				
1468	02	B.E / B.Tech or equivalent in Automobile Engineering.	S, ST, W, BN, L, KC, CRL, CL, MF, RW, SE, H, C	Responsible for supervision, maintenance and operation of a large fleet of heavy and light vehicles. Responsibility includes spare parts management, procurement and inspection.
1469	04	B.E / B.Tech or equivalent in Metallurgy / Material Science or equivalent.	BA, BL, S, ST, W, BN, L, KC, JU, CRL, CL, MF, RW, SE, H, C, PP	Material processing, development and testing, quality control, characterisation, metallic working and indigenous realisation of metallic materials for launch vehicle programme.

For Post Nos. 1448 to 1469, the qualifications of M.E / M.Tech or equivalent should be in First Class with an aggregate minimum of 60% marks (average of all semesters) or CGPA / CPI grading of a minimum of 6.5 on a 10 scale or equivalent and B.E / B.Tech / M.Sc or equivalent should be in First Class with an aggregate minimum of 65% marks (average of all semesters) or CGPA / CPI grading of a minimum of 6.84 on a 10 scale or equivalent. For candidates with AMIE / Grad IETE qualification, there should be an aggregate minimum of 65% marks or CGPA / CPI grading of 6.84 on a 10 scale in Section B alone.

POST : MEDICAL OFFICER-SD [LEVEL 11 (` 67,700 - ` 2,08,700)]

Post Code	No. of posts	Essential qualifications	Physical Requirements	Nature of job
1470	01	1. MD in General Medicine from a recognized university / Equivalent Post Graduate Degree in General Medicine. 2. Registration of additional qualification (MD or Equivalent) with Medical Council of India / State Medical Council.	S, ST, W, BN, L, KC, MF, RW, SE, H, C, BA, BL.	(a) Attending to patients reporting to Department Clinics. (b) Pre employment and Periodic medical check ups (c) Handling medical emergencies (d) General administration of Medical unit. (e) Health education.

POST : MEDICAL OFFICER-SC [LEVEL 10 (` 56,100 - ` 1,77,500)]

Post Code	No. of posts	Essential qualifications	Physical Requirements	Nature of job
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1471	01 (OH-01)	1. MBBS / equivalent from a recognized University 2. Permanent Registration with Medical Council of India/State Medical Council 3. Minimum 2 years clinical experience in a reputed hospital. Preferably with Diploma in Industrial Health OR Associate Fellow of Industrial Health (AFIH)	S, ST, W, BN, MF, RW, SE, H,C	Attending to patients in Department Clinics & Occupational Health Unit. Handling medical and surgical emergencies. Pre-employment medical checkup. Periodic/Mandatory Medical checkup of employees. Providing medical cover during launch activities. Providing health education to employees and Staff family members. Administrative work of Medical Units. Epidemiological study with regard to vector borne diseases in the campus and ISRO Staff Colonies. Have to move in ambulances during evacuation of patients. Will have to do standby duties at launch sites which involve standing in areas where there is a potential risk or exposure to hazardous chemicals. Job involves extended working hours and extensive travelling to various ISRO centers and work centers.
This vacancy is a backlog vacancy of PWBD (OH - Orthopedically Handicapped) category. If OH candidate is not available, UR (Un-reserved) candidates will be considered for the post and the reservation for OH will be carried forward.				
Abbreviations	UR=Un-reserved, OBC=Other Backward Class, SC-Scheduled Caste, ST- Scheduled Tribe, EWS=Economically Weaker Sections, PWBD = Persons with Benchmark Disabilities, S=Sitting, ST=Standing, W=Walking, BN=Bending, L=Lifting, RW=Reading & Writing, MF=Manipulation by Fingers, SE=Seeing, C=Communication, CRL=Crawling, CL=Climbing, PP=Pulling & Pushing, KC=Kneeling & Crouching, H=Hearing			

General Note:

1. Persons with Benchmark Disability (PWBD) can apply for the posts suitable to them even if the post is not identified for them. However, such candidates will be considered for selection to such posts by general standard of merit. Persons suffering from not less than 40% of relevant disability shall alone be eligible for the benefit of age relaxation as permissible under rules.
2. The above vacancies may vary depending upon the actual requirement.
3. The Centre reserves the right not to fill up any of the posts, if it so decides.

Special Note:

1. For Post Nos. 1436 to 1447, those who have already registered in ISRO Live Register as on Advertisement Date can also apply afresh against suitable post(s) in this advertisement. They shall mention the registration details appropriately while applying online.
2. For Post No. 1470 (Medical Officer-SD), the approximate minimum salary is ` 1,03,000 /- & for Post No. 1471 (Medical Officer-SC), the approximate minimum salary is ` 85,800 /- [including Non-Practising Allowance (NPA)].