

INSTITUTE FOR PLASMA RESEARCH
Near Indira Bridge, Bhat Village, Dist. Gandhinagar - 382 428

ADVT. NO. 09/2012

The Institute for Plasma Research is a premier scientific institute under the Department of Atomic Energy, Govt. of India devoted to research and development activities in the areas of basic Plasma Physics, Magnetic Confinement fusion and industrial applications of plasmas. Applications are invited from highly motivated and result oriented candidates for the posts of :

PART-A

Sl.No.1	ENGINEER – SD (ITER-India)	No. of Post – 1
	QUALIFICATION & EXPERIENCE :B.E. / B.Tech. / B.Sc. (Engg.) (<i>First Class</i>) in Mechanical Engineering + 5 years experience OR M.E. / M.Tech. (<i>First Class</i>) in Mechanical Engineering (Preferably Cryogenic Engineering) + 3 years experience.	
	JOB DESCRIPTION :The incumbent will be expected to work on fabrication and installation aspects, specific to cryogenic system, namely, Cryolines and Cold valve boxes. The candidate will review the fabrication drawings, supervise fabrication as well as check the compliance with quality requirements. Interaction with the manufacturer, management of deviations and assessing the schedule will be part of the job.	
	DESIRABLE EXPERIENCE :Experience (number of years) as specified above in the Qualification & Experience column with following particulars: (i) Working experience on manufacturing of cryogenic components/equipment (ii) Supervision of manufacturing activities (iii) Basic experience on tests defined in quality (e.g. Helium leak test, NDT, cryogenic test etc.)	
	The candidate should have knowledge of cryogenic processes, vacuum technology and cryogenic safety Selected candidate will be required to work at ITER-India, Gandhinagar.	
Sl.No.2	ENGINEER / SCIENTIST – SC	No. of Post – 1
	QUALIFICATION & EXPERIENCE : B.E. / B.Tech. / B.Sc. (Engg.) (<i>First Class</i>) in Ceramic Engineering having minimum 1 year experience in synthesis of ceramic powders / materials and their characterization; or M.Sc. in Physics (<i>First Class</i>) and having minimum one year working experience in synthesis of ceramic powders / materials and their characterization. Fresh M.Tech. (<i>First Class</i>) (Physics / Ceramic Engg.)	
	JOB DESCRIPTION : The incumbent will be expected to work in the synthesis of Lithium based ceramic powder by synthesis combustion, solid state, wet chemical method, etc., pebble preparation by Extruder spherodizer and their Characterization (XRD, DSC, TG, BET, Dilatometry, Particle size, Thermal conductivity etc.) as tritium breeder materials.	
Sl.No.3	ENGINEER – SC (MECHANICAL)	No. of Post – 1
	QUALIFICATION & EXPERIENCE : B.E. / B.Tech. / B.Sc. (Engg.) (<i>First Class</i>) in Mechanical Engineering having minimum one year working experience in Engineering Design & Analysis.	
	JOB DESCRIPTION : The selected candidates are expected to work in various areas of Detailed Engineering Design & Analysis and commissioning of different SST-1 diagnostics. Commissioning work will involve interface of UHV vacuum chambers, support structure with SST-1 Tokamak and their related issues.	
Sl.No.4	SCIENTIST – SC	No. of Post – 1
	QUALIFICATION & EXPERIENCE : M.Sc. Physics (<i>First Class</i>) having minimum 1 year working experience in Lasers, Optics, opto-electronics in working with high power lasers, hands of experience in optics and spectroscopy experiment, experience in handling high gain detectors like photo multiplier tubes, photo diodes and CCD camera. Knowledge in Vacuum system and data analysis will be an added advantage.	
	JOB DESCRIPTION : The incumbent will be expected to carry out erection, commissioning, calibration and operation of SST-1 Thomson Scattering system	
Sl.No.5	ADMINISTRATIVE OFFICER – I	No. of Post – 1
	QUALIFICATION & EXPERIENCE : Graduate with Minimum 10 years experience of which at least 5 years in Supervisory Capacity in Administrative Duties.	
	JOB DESCRIPTION : The candidate will be responsible for the day-to-day administration of the centre and will have to coordinate the activities of the various arms of administration of the centre including finance, stores and purchase and public relations and adept with specific orientation, attitude and inter personal skills at interfacing with scientists, engineers, overseas visitors and other high level officials. Selected candidate will be required to work at Centre of Plasma Physics-Institute for Plasma Research, Guwahati, Assam.	
Sl.No.6	ACCOUNTS OFFICER – I	No. of Post – 1
	QUALIFICATION & EXPERIENCE : ACA / SAS with minimum 3 years experience / M.Com. with 6 years experience in Supervisory capacity. B.Com. with 10 years experience of which 5 years in a Supervisory capacity in Accounts & Auditing. Acquaintance with Government rules & regulations, familiarity with computers is essential.	
	JOB DESCRIPTION : The incumbent will be responsible for handling the accounting and financial functions of the Institute including maintain accounts of receipt and expenditure, budget preparation and control, finalization of accounts and preparation of statement of accounts and getting the accounts of the Institute audited.	
Sl.No.7	ASSISTANT ACCOUNTS OFFICER	No. of Post – 1
	QUALIFICATION & EXPERIENCE : B.Com. + minimum 7 years experience of which at least 3 years in a Supervisory capacity. M.Com. + minimum 3 years experience in Accounts & Auditing in a large Industrial / Govt. Department.	

	JOB DESCRIPTION : The selected candidate will be required to do bill passing/ booking in FAS, checking & processing of bills, vendor scrutiny, Payment process, preparation and finalization of accounts, knowledge of Government Rules and Regulations is essential.	
Sl.No.8	TECHNICAL ASSISTANT – C (ELECTRONICS)	No. of Post – 1
	QUALIFICATION & EXPERIENCE: Diploma in Electronics and Communication/ Industrial Electronics (<i>First Class</i>) from recognized University / Technical Examination Board with minimum 3 years of work experience in the various types of signal conditioning Electronics circuit designing and testing in industries. Knowledge of Orcad software is desirable. Basic electronics knowledge must require. Experience of working with data acquisition and control system, operating in RF and HV environments, will be an added advantage.	
	JOB DESCRIPTION: The selected candidate will be required to assist in the installations, testing and commissioning of signal conditioning electrons cards, PLC based control system and PXI based Data acquisition system. Also expected to assist in designing and testing of varies electronics circuits.	
Sl.No.9	TECHNICAL ASSISTANT – B (CIVIL / ELECTRICAL)	
	QUALIFICATION & EXPERIENCE: Diploma in Civil / Electrical (<i>Fresh</i>) (<i>First Class</i>) from recognized University / Technical Examination Boards.	
	JOB DESCRIPTION (CIVIL): (No. of Post –1): The selected candidate will be required to do day to day supervision of works, Study & Scrutiny of the drawings, preparation of estimates, taking & recording of measurements, maintain records related to project, preparation of bills & all Project related works and any other work assigned from time to time.	
	JOB DESCRIPTION (ELECTRICAL): (No. of Post –1): The selected candidate will be required to do Electrical distribution work of 3 Phase AC / single AC, Electrical Cable layout, high voltage testing, adequate knowledge on Electrical parameters and measurements techniques is desirable.	
Sl.No.10	SCIENTIFIC ASSISTANT – B (PHYSICS)	
	QUALIFICATION & EXPERIENCE: B.Sc. (3 Years) (<i>Fresh</i>) (<i>First Class</i>) with (Physics) as a main subject.	
	JOB DESCRIPTION : (No. of Posts – 3) : The selected candidate will be required to assist in the experiments involving Thomson scattering and beam diagnostics. Candidate having knowledge on laboratory scale sensors/transducers and laboratory scale optics experiments will be preferred.	
	JOB DESCRIPTION : (No. of Post – 1) : The selected candidate will be required to assist in the installation, commissioning and testing of vacuum systems, gas feed system, water system, cesium delivery system and ion source. The candidate will also assist in the various designing works using Auto-CAD or any other design software.	
	JOB DESCRIPTION : (No. of Post – 1) : The selected candidate will be required to assist Scientist / Engineers in regularly operating and maintaining various scientific equipments and systems.	
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	JOB DESCRIPTION: (No. of Post – 1) : The selected candidate will be required to assist Scientist / Engineers in laboratory research works related to magnet development and applied superconductivity.	

PART-B

SPECIAL RECRUITMENT DRIVE FOR OTHER BACKWARD CLASS (OBC) / SCHEDULED TRIBE (ST) / HEARING HANDICAPPED (HH) / PHYSICALLY HANDICAPPED (PH)

Sl.No.11	ASSISTANT PURCHASE OFFICER	No. of Post – 1 (OBC)
	<u>THIRD ATTEMPT</u>	
	QUALIFICATION & EXPERIENCE: Graduate with 7 years experience of which at least 3 years experience in Supervisory capacity in a Grade equivalent to the next Lower Grade. Experience in Customs (import & export) & Excise matters is desired. Knowledge of Govt. of India Rules, regulations and acts and experience of handling procurement of technical equipment will be an added advantage. Should have good communication skills with computer knowledge in word/excel/power point/internet etc.	
	JOB DESCRIPTION: The selected will be required to carry out the purchase activities such as handling floating of enquiries/public tenders, examination of proposals, comparative statements, recommendations, arranging meetings with the vendors and finalization of orders/contracts, correspondence with the vendors and other departments like Customs, Insurance Co etc., and vendor development.	
Sl.No.12	TRADESMAN – A (WELDER)	No. of Post – 1 (ST)
	<u>SECOND ATTEMPT</u>	
	QUALIFICATION & EXPERIENCE : I.T.I. (<i>First Class</i>) (<i>Fresh</i>) in Welder Trade. Preference will be given to the candidates who have experience in reputed organization in familiarity with Gas Tungsten Arc Welding (GTAW) process in addition to shielded metal arc welding (SMAW).	
	JOB DESCRIPTION : The selected candidate will have to work in all types of welding activities for TBM program at IPR. In the beginning, the candidate will be deputed to Indira Gandhi Centre for Atomic Research (IGCAR), Kalpakkam, Tamilnadu for minimum period of 2-3 years to work in similar field.	
Sl.No.13	OFFICE CLERK – B or A (ACCOUNTS)	No. of Post – 1 (HH)
	<u>SECOND ATTEMPT</u>	
	“Hearing Handicapped” means loss of 60 decibels or more in the better ear in the conversational range of frequencies. The vacancy is for hearing handicapped but if persons are not available then other disability will also be considered.	

	<p>QUALIFICATION & EXPERIENCE : (OFFICE CLERK – B) : SSC + 6 years experience / Inter + 4 years experience / Graduate + 2 years relevant experience in reputed organizations. Proficiency in personal computer / Typing. Preference will be given to the candidates having ability to do routine correspondence in English independently. Knowledge of Central Govt. rules will be of added advantage.</p> <p>QUALIFICATION & EXPERIENCE : (OFFICE CLERK – A) : S.S.C. + 2 years relevant experience in reputed organizations. Proficiency in personal computer / Typing. Preference will be given to the candidates having ability to do routine correspondence in English independently. Knowledge of Central Govt. rules will be of added advantage.</p> <p>JOB DESCRIPTION : The selected candidates will be required to do bill passing / booking in FAS / SAP, checking & processing of bills, vendor scrutiny, Payment process, generation of MIS report, knowledge of Government rules and regulations is desirable.</p>	
Sl.No.14	ENGINEER / SCIENTIST – SC	No. of Post – 1(PH)
	<p style="text-align: center;"><u>FIRST ATTEMPT</u></p> <p>Physical deformity should not be less than 40 percentage.</p> <p>QUALIFICATION & EXPERIENCE : B.E. / B.Tech. / B.Sc. (Engg.) (<i>First Class</i>) in Ceramic Engineering having minimum 1 year experience in synthesis of ceramic powders / materials and their characterization; or M.Sc. in Physics or M.Tech. (Physics / Ceramic Engg.) with (<i>First Class</i>) and having minimum one year working experience in synthesis of ceramic powders / materials and their characterization.</p>	
	<p>JOB DESCRIPTION : The incumbent will be expected to work in the synthesis of Lithium based ceramic powder by synthesis combustion, solid state, wet chemical method, etc., pebble preparation by Extruder spherodizer and their Characterization (XRD, DSC, TG, BET, Dilatometry, Particle size, Thermal conductivity etc.) as tritium breeder materials.</p>	
Sl.No.15	ENGINEER – SC (MECHANICAL)	No. of Post – 1(PH)
	<p style="text-align: center;"><u>FIRST ATTEMPT</u></p> <p>QUALIFICATION & EXPERIENCE: B.E. / B.Tech. / B.Sc. (Engg.) (<i>First Class</i>) in Mechanical Engineering having minimum one year working experience in Engineering Design & Analysis.</p>	
	<p>JOB DESCRIPTION: The selected candidates are expected to work in various areas of Detailed Engineering Design & Analysis and commissioning of different SST-1 diagnostics. Commissioning work will involve interface of UHV vacuum chambers, support structure with SST-1 Tokamak and their related issues.</p>	

PART-C

Sl.No.16	ENGINEER (PROJECT) (MECHANICAL)	No. of Posts – 6
	<p>QUALIFICATION & EXPERIENCE: B.E. / B.Tech. / B.Sc. (Engg.) (<i>First Class</i>) in Mechanical Engineering having minimum one year working experience in Engineering Design & Analysis / Fresh M.E. / M.Tech. degree in the relevant subject.</p>	
	<p>JOB DESCRIPTION: (No. of Posts – 5) : The selected candidates are expected to work in various areas of detailed engineering drawing, design and analysis for UHV systems, Support structures, Jigs & Fixtures, Cryogenic systems, Metrology, Quality Control, Installation and commissioning etc. Knowledge of relevant softwares like CATIA, ANSYS, PVElite, etc. will be added advantage.</p> <p>JOB DESCRIPTION: (No. of Post – 1) : The selected candidates are expected to work in various areas of Detailed Engineering Design & Analysis and commissioning of different SST-1 diagnostics. Commissioning work will involve interface of UHV vacuum chambers, support structure with SST-1 Tokamak and their related issues.</p>	
Sl.No.17	ENGINEER (PROJECT) (MECHANICAL)	No. of Post – 1
	<p>QUALIFICATION & EXPERIENCE: B.E. / B.Tech. / B.Sc. (Engg.) (<i>First Class</i>) in Mechanical Engineering having minimum one year working experience in Engineering Design & Analysis / Fresh M.E. / M.Tech. degree in the Cryogenics / Thermal Engineering.</p>	
	<p>JOB DESCRIPTION: The selected candidate is expected to work in conceptual and detailed Design & Analysis, documentation and drawing preparation, specification document preparation for tendering, fabrication follow-up, quality assurance and testing activities follow-up with manufacturer, layout, assembly and commissioning plan at IPR site for different type of heat exchangers like plate & fin, tube & fin, shell & tube. These heat exchangers are part of helium refrigeration and liquefaction plant.</p>	
Sl.No.18	ENGINEER (PROJECT) (MECHANICAL)	No. of Post – 1
	<p>QUALIFICATION & EXPERIENCE: B.E. / B.Tech. / B.Sc. (Engg.) (<i>First Class</i>) in Mechanical Engineering having minimum one year working experience in Engineering Design & Analysis / Fresh M.E. / M.Tech. degree in Machine Design / CAD & CAM.</p>	
	<p>JOB DESCRIPTION: The selected candidate is expected to work in conceptual and detailed Design & Analysis, documentation and drawing preparation, specification document preparation for tendering, fabrication follow-up, quality assurance and testing activities follow-up with manufacturer for large compressor skids, layout, assembly and commissioning plan of different components of large compressor system at IPR site. The compressor system is a part of helium refrigeration and liquefaction plant.</p>	
Sl.No.19	ENGINEER (PROJECT) (ELECTRONICS / INSTRUMENTATION & CONTROL)	
	<p>QUALIFICATION & EXPERIENCE : (ELECTRONICS) : B.E. / B.Tech. / B.Sc. (Engg.) (<i>First Class</i>) in Electronics & Communication Engineering having minimum 1 year experience in the Electronics circuit design and development / Fresh M.E. / M.Tech. degree in the relevant subjects.</p> <p>QUALIFICATION & EXPERIENCE : (INSTRUMENTATION & CONTROL) : B.E. / B.Tech. / B.Sc. (Engg.) (<i>First Class</i>) in Instrumentation & Control Engineering having minimum 1 year experience in the control system development / Fresh M.E. / M.Tech. degree in the relevant subjects.</p>	

	JOB DESCRIPTION : (ELECTRONICS) : (No. of Post -1) : The incumbent will be expected to work in various areas of Data Acquisition and control system. JOB DESCRIPTION : (INSTRUMENTATION & CONTROL) : (No. of Post -1) : The incumbent will be expected to work in various areas of instrumentation and control engineering. JOB DESCRIPTION : (INSTRUMENTATION & CONTROL) : (No. of Post -1) : The incumbent will be expected to work for detailed specification generation of instrumentation and valve requirements, PLC requirements, SCADA requirements and tender document preparation for purchase, quality assurance activities and testing requirements at manufacturer site and at IPR site. These instrumentation and controls are a part of helium refrigeration and liquefaction plant.	
Sl.No.20	ENGINEER (PROJECT) (CIVIL)	No. of Posts – 2
	QUALIFICATION & EXPERIENCE : B.E. / B.Tech. / B.Sc. (Engg.) (<i>First Class</i>) in Civil Engineering having minimum 1 year experience in building constructions work and site supervision work and should be computer literate.	
	JOB DESCRIPTION : The selected candidates are required to do day to day supervision & execution of works to ensure best quality & workmanship, to co-ordinate with Contractors, Architects & Consultants, study & scrutiny of drawings, preparation of estimates including rate analysis & Tender documents, correspondence & maintaining records related to projects, Scrutiny and verification of bills including taking and recording measurements and all project related work and any other work assigned from time to time. The selected candidate will be required to work at any place in the India.	
Sl.No.21	ENGINEER (PROJECT)	No. of Post – 1
	QUALIFICATION & EXPERIENCE: B.E. / B.Tech. / B.Sc. (Engg.) (<i>First Class</i>) in Information Technology / Computer Science or M.Sc. (Computer Science) First Class or M.C.A. First Class having minimum 1 year programming experience in any higher / lower level language and experience in developing GUI based applications is required. Candidate having knowledge of PHP / Python based programming will be given preference.	
	JOB DESCRIPTION: The selected candidate will be working on a project to develop a software package for the analysis of active spectroscopy signals observed in tokamak plasmas.	

GENERAL INFORMATION

PAY SCALE :

ENGINEER-SD : Pay Band 3 (PB-3) Rs.15600-39100 with basic Grade Pay Rs.6600/- (Gross Pay Rs.46898/- p.m.)

ENGINEER / SCIENTIST-SC / ADMINISTRATIVE OFFICER – I AND ACCOUNTS OFFICER - I :

Pay Band 3 (PB-3) Rs.15600-39100 with basic Grade Pay Rs.5400/- (Gross Pay Rs.38850/- p.m.)

ASSISTANT ACCOUNTS OFFICER and TECHNICAL ASSISTANT – C : Pay Band 2 (PB-2) Rs.9300-34800 with basic Grade Pay Rs.4600/- (Gross Pay Rs.31709/- p.m.)

TECHNICAL / SCIENTIFIC ASSISTANT - B : Pay Band 2 (PB-2) Rs. 9300-34800 with basic Grade Pay Rs.4200/- (Gross Pay Rs.24975/- p.m.)

OFFICE CLERK – B : Pay Band 1 (PB-1) Rs.5200-20200 with basic Grade Pay Rs.2400/- (Gross Pay Rs.18334/- p.m.)

OFFICE CLERK – A and TRADESMAN – A : Pay Band 1 (PB-1) Rs.5200-20200 with basic Grade Pay Rs.1900/- (Gross Pay Rs.14301/- p.m.)

REMUNERATION for the posts at Sl.No.16 to 21 : Consolidated Rs.29000/- p.m.

Only Indian Nationals need to apply. Those who have attended interview for similar posts in the past one-year need not apply. Separate applications should be submitted with supportings for separate posts. The persons with disabilities can also be selected on their own merit against the unreserved quota.

The number of vacancies indicate above are provisional and may be increased / decreased depending on the actual requirement of the organisation. Post from Sl.No. 16 to 21 are purely temporary for a period of one year OR co-terminus with the project. It would, therefore, not confer any right / claim implicit or explicit for any candidates for claiming extension or absorption in IPR.

AGE LIMIT : 35 years and relaxable by 5 years for SC / ST candidates, 3 years for Other Backward Class and 10 years for Physically Handicapped candidates.

In addition to pay and allowances, Medical Scheme facility under its Contributory Health Service Scheme (self only for posts from Sl.No. 16 to 21), Free Transport and subsidized Canteen facilities are admissible for the above posts. For Sl.No.1 to 15 prerequisites like New Pension Scheme, LTC, Group Linked Insurance Scheme are admissible as per Institute's rules.

Experience should have been obtained after possessing the essential educational qualifications. **The eligibility criteria with regard to age, qualification, experience, etc. shall be determined as on 05/11/2012.**

First Class Traveling Allowance for Engineer-SD and Sleeper Class / Second Class for all other posts to and fro Rail / State Transport bus fare by direct and shortest route will be reimbursed to out-station candidates called for interview on production of ticket or proof of journey such as Railway / Bus ticket or ticket no.

HOW TO APPLY : Typed application on A4 size paper **strictly** in the following format available on our web page at <http://www.ipr.res.in/advertisements.html> with one recent passport size photograph duly affixed on the right hand top corner of the application alongwith copies of testimonials in support of Qualification and Work Experience, etc. should reach **The Acting Chief Administrative Officer**, Institute for Plasma Research at the above address on or before 05/11/2012. **The envelope should be strictly superscribed with Advt. No. and Post Applied for.**

Candidates employed in Govt. / Quasi Govt. / Public Sector Undertakings should forward their applications through proper channel or bring NOC if called for interview. The Institute reserves the right to reject any application without assigning any reason. **Applications not in the above format are liable to be summarily rejected.** No interim correspondence will be entertained.

P.S. : This advertisement is available on our home page <http://www.ipr.res.in/advertisements.html>

Government strives to have a workforce which reflects gender balance and women candidates are encouraged to apply.