

प्लाज़्मा अनुसंधान संस्थान
INSTITUTE FOR PLASMA RESEARCH
Bhat, Gandhinagar -382428

Advt No. 05/2020 (1)

The Institute for Plasma Research (IPR) 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 and Societal applications of plasmas. IPR is located at Bhat Village, Gandhinagar (Gujarat) and also has extensions of its Laboratories at the "Facilitation Centre for Industrial Plasma Technologies (FCIPT)," GIDC, Gandhinagar and a Centre named the "Centre for Plasma Physics-Institute for Plasma Research (CPP-IPR)" at Guwahati, Assam.

Online applications are invited from eligible candidates for the following posts on Direct Recruitment basis. Selected candidate will be required to work at the Institute for Plasma Research, Gandhinagar or FCIPT. However, services of the candidate may be transferred to other Centres of the Institute depending upon future requirements.

Name of the post: **Scientific Officer-D/Scientific Officer-E**

No. of posts: **06 Nos. (General)**

IPR reserves the right to fill the vacant posts (06 Nos) either by selecting Scientific Officer-D or Scientific Officer-E. There is no need to submit separate applications for each post i.e. Scientific Officer-D & Scientific Officer-E. Each Candidate should submit only a SINGLE application for Scientific Officer - D/ Scientific Officer-E. Based on his/her age, qualification, experience and performance in the interview, he/she will be considered for a suitable post.

1	Name of the Post	Scientific Officer - D	Scientific Officer - E
2	Pay Level	Level 11 of Pay Matrix (7 th CPC) at starting Basic Pay of ₹67700/-	Level 12 of Pay Matrix (7 th CPC) at starting Basic Pay of ₹78800/-
3	Age Limit	40 years (Age relaxations shall be admissible as per Central Government orders as amended from time to time).	45 years (Age relaxations shall be admissible as per Central Government orders as amended from time to time).
4	Essential Qualification/ Experience	a) Ph.D. in Physics or Engineering, in an area related to Plasma Science & Technology. AND b) Either an M.Sc. in Physics (with minimum 60% marks) or B.Tech./B.E. in Electrical/Mechanical/Electronics/Chemical Engineering (with minimum 60% marks). AND c) Publications in reputed international refereed journals during PhD.	a) Ph.D. in Physics or Engineering, in an area related to Plasma Science & Technology AND b) Either an M.Sc. in Physics (with minimum 60% marks) or B.Tech./B.E. in Electrical/Mechanical/Electronics/Chemical Engineering (with minimum 60% marks). AND c) Publications in reputed international refereed journals during Ph.D. AND d) Minimum four year post-Ph.D. research experience in the field of Plasma Science & Technology.
5	Desirable Qualification (Research Experience)	(A) Ph.D. thesis work should include any one or more of the following areas: (A-1) Design and/or Operation of plasma based experimental systems such as Filamentary discharge, Glow Discharge, RF Discharge Plasma, Thermal Plasma, High energy pulsed power driven plasma, tokamak/stellarator, etc., including their vacuum/high pressure/mechanical	(A) Ph.D. thesis work should include any one or more of the following areas: (A-1) Design and/or Operation of plasma based experimental systems such as Filamentary discharge, Glow Discharge, RF Discharge Plasma, Thermal Plasma, High energy pulsed power driven plasma, tokamak/stellarator, etc., including their vacuum/high

		<p>subsystems. Hands on experience in development/use of one or more plasma diagnostics such as electric probe, magnetic probe, spectroscopy, laser optics, interferometry, etc.</p> <p>(A-2) Design and development of technologies used for plasma experiments such as RF or NBI heating systems, high voltage power supplies, ultra-high vacuum systems, etc.</p> <p>(A-3) i) Plasma Theory ii) Plasma modelling and simulation iii) Computational plasma science iv) Fusion theory or any other areas of recent advancement in Plasma Science & Technology.</p>	<p>pressure/mechanical subsystems. Hands on experience in use of one or more plasma diagnostics such as electric probe, magnetic probe, spectroscopy, laser optics, interferometry, etc.</p> <p>(A-2) Design and development of technologies used for plasma experiments such as RF or NBI heating systems, high voltage power supplies, ultra-high vacuum systems, etc.</p> <p>(A-3) i) Plasma Theory ii) Plasma modelling and simulation iii) Computational plasma science iv) Fusion theory or any other areas of recent advancement in Plasma Science & Technology.</p> <p>(B) At least one-year Post-Doctoral research experience in areas relevant to Fusion Science & Technology such as Plasma Surface Interaction/Plasma Mater Interaction/ Charged particle Beams generation, acceleration/ Neutronics/Neutron Generation etc. with adequate knowledge in different plasma diagnostics.</p>
6	Essential Research Publications	Minimum two first-authored research papers published or accepted for publications in reputed international journals during Ph.D. period (UGC recognized journals).	<p>i) Minimum two first-authored research papers published or accepted for publications in reputed international journals during Ph.D. period (UGC recognized journals).</p> <p>AND</p> <p>ii) At least two publications in reputed international journal during post-Ph.D. research activities.</p>
7	Job Description	The selected candidates will assist, conduct and plan research work at IPR in the areas of Plasma/Fusion Science & Technology (Experiments/Theory) or in any other areas of recent advancements related to Plasma Science & Technology.	The selected candidates will assist, conduct and plan research work at IPR in the areas of Plasma/Fusion Science & Technology (Experiments/Theory) or in any other areas of recent advancements related to Plasma Science & Technology.
8	Research Proposal	Candidate should also submit a research proposal for a 3-year period within 1000 words on any of the areas mentioned at Sr.No.5. The proposal should include a brief objective, motivation, resources needed, work plan & time schedule, deliverables, and funds required.	Candidate should also submit a research proposal for a 3-year period within 1000 words on any of the areas mentioned at Sr.No.5. The proposal should include a brief objective, motivation, resources needed, work plan & time schedule, deliverables, and funds required.
9	Letters of recommendation	Three letters of recommendation from scientists who are familiar with the work of the candidate should be sent at the email: reco-sode@ipr.res.in . One of the referees <u>must</u> be the PhD Guide of the candidate.	Three letters of recommendation from scientists who are familiar with the work of the candidate should be sent at the email: reco-sode@ipr.res.in .

Selection Process:

The applications received in response to the advertisement shall be scrutinized and only candidates shortlisted from valid applications on the basis of criteria like age, educational qualification, experience etc. shall be called for Interview. The interview for shortlisted candidates will be conducted either in-person at IPR or online by Video Conferencing. The authorities reserve all rights, not to call an applicant for Interview, without assigning any reason.

1. The prescribed Essential Qualifications are the minimum and the mere possession of the same does not entitle candidates to be called for interview.

THE CANDIDATE SHOULD, THEREFORE, MENTION ALL OF HER/HIS QUALIFICATIONS AND EXPERIENCE IN THE RELEVANT FIELDS OVER AND ABOVE THE MINIMUM QUALIFICATIONS. For example, if experience is not essential for the post but an applicant possesses experience, he/she is advised to fill it in relevant field. Only those educational qualifications and experience, etc., will be considered for scrutiny / short-listing which are explicitly claimed in the online application

2. In the event of number of applications being large, Institute will adopt short listing criteria to restrict the number of candidates to be called for interview to a reasonable number by one or more of the following methods in the given sequence:

- i) On the basis of higher experience in the relevant field than the minimum prescribed in the advertisement. Here, experience will be counted only after completion of the essential educational qualification.
- ii) On the basis of experience before as well as after the acquisition of essential qualifications.
- iii) On the basis of Desirable Qualification (DQ) or any one or all of the DQs if more than one DQ is prescribed.
- iv) On the basis of higher educational qualifications than the minimum prescribed in the advertisement.
- v) By holding a Written Test.

APPLICATION FEES: Fee structure for application is as below:

Sr. No.	Category	Amount (₹)
1.	General/OBC	200/-
2.	SC/ST/Female/PwBD/Ex-Serviceman/ Internal Candidates	Nil

Mode of Payment: Through Online only (SBI Collect)

Steps for Online Payment:

1. Visit SBI Collect: <https://www.onlinesbi.com/sbicollect/icollecthome.htm>
2. Proceed → State of corporate / Institution: Gujarat
3. Type of Corporate / Institution: Others
4. Others Name: Institute for Plasma Research
5. Select Payment Category: Application Fees-IPR
6. Make payment.
7. Print/Download receipt to fill details of payment in the Online Application.

GENERAL INFORMATION

1. Only Indian Nationals need to apply. The numbers of vacancies indicated above are provisional and may be increased or decreased depending on the actual requirement of the institute. Persons with disabilities can also be selected on their own merit against the unreserved quota.

2. Before filling up the Online Recruitment Application, the candidates must go through the detailed Advertisement. Please proceed to fill the online application only if you are satisfied that you possess the minimum Essential Qualifications stipulated for the post, otherwise, submitted application(s) shall be rejected outright.
3. The date for determining the eligibility of all the candidates in every respect shall be the prescribed closing date for submission of Online Application, unless specified otherwise.
4. The applicants are advised to fill in all their particulars in the Online Application carefully and upload recent passport size colour photograph and self-attested scanned copies of the documents to support date of birth, educational qualification, experience, age relaxation, etc., as submission of wrong information may lead to rejection through computer based short-listing. Institute reserves the right to reject applications not fulfilling the requisite criteria at any stage of the recruitment process.
5. Each applicant is advised to submit only a single Online Application. However, if he/she submits multiple Online Applications, then he/she must ensure that the Online Application with the higher 'Application ID Number' is complete in all respects including fee, wherever applicable. Applicants who submit multiple Online Applications should note that only the Online Recruitment Application with higher 'Application ID Number' shall be considered by the Institute and fee paid against one 'Application Number' shall not be adjusted against any other 'Application Number'.
6. Fee once paid shall not be refunded under any circumstances nor can the fee be held in reserve for any other examination or selection.
7. Candidates seeking relaxations under SC/ST/OBC – Non Creamy layer/PwBD category are required to upload certificate in the prescribed format of Govt. of India failing which they will be treated at par with "UNRESERVED (UR)" candidates.
8. All the qualifications must be from recognized Indian Universities / Boards / Institutions only. Applicants having qualifications from any other countries shall upload equivalency certificate from UGC/AIU.
9. The following certificate/documents are acceptable only as proof of Age (Any one):
 - i. Date of Birth as recorded in the Birth Certificate.
 - ii. Secondary School Leaving Certificate (SSLC).
 - iii. Matriculation / Secondary School Certificate in which date of birth is mentioned.
10. Internal candidates (Permanent employees) of the Institute (IPR/ CPP-IPR) shall be eligible for relaxation of 5 years in the upper age limit. Candidate seeking age relaxation under any other category (SC/ST/OBC) shall not be eligible for age relaxation as internal candidate.
11. **Candidates employed in Govt. / Aided/Autonomous/Quasi Govt. / Public Sector Undertakings should upload NOC from his/her organizations/institutes with online application or bring NOC if called for Interview.** The Institute reserves the right to reject any application without assigning any reason. Incomplete applications are liable to be summarily rejected. No interim correspondence will be entertained.
12. Third AC to and fro Rail/ State Transport bus fare by direct and shortest route will be reimbursed to outstation candidates who are called for Interview on production of ticket or proof of journey such as Railway / Bus ticket or ticket number.
13. In addition to pay and allowances, HRA, Transport allowance, Medical Scheme facility under its Contributory Health Service Scheme and subsidized Canteen facilities are admissible for the above posts. Perquisites like Performance Related Incentive Scheme (PRIS), New Pension Scheme, LTC, and Children Education Allowance for school going children and free transport in lieu of Transport Allowance are admissible as per Institute's rules and government orders as amended from time to time.
14. Experience shall be counted only after the date of possessing the essential educational qualifications.

15. The candidates are advised to fill their **correct and active e-mail address** in the online application as all communications will be made by the Institute through e-mail only. The candidates are also advised to refer to website of the Institute for regular updates of the recruitment.
16. Addendum / deletion/ corrigendum (*If any*) shall be posted on the Institute's website only i.e. http://www.ipr.res.in/documents/jobs_career.html
17. The list of shortlisted candidates will be posted on the IPR website. There will be no separate communication for candidates who are not shortlisted. No correspondence in this regard will be entertained.
18. In case of any dispute / ambiguity that may occur in the process of selection, the decision of the Institute shall be final and binding.
19. Any dispute arising out of this advertisement shall be subject to the sole jurisdiction of the Courts/Tribunals situated at **Gandhinagar, Gujarat** only.
20. IPR reserves the right to not select any candidate for above post or cancel the advertisement at any stage without assigning any reason.
21. Records of the candidates not selected shall be preserved only for a period of one year from the date of publication of the list of selected candidates.
22. Applicants, by virtue of the act of application, commit themselves to the highest standards of ethical practices. Fraudulent documents, canvassing in any form or influencing the process of recruitment at any stage shall not only result in rejection of the application but may also lead to legal action.

Chief Administrative Officer

HOW TO APPLY

Interested candidates are requested to apply online at Institute's website http://www.ipr.res.in/documents/jobs_career.html by **15/08/2020 (till 5.30 P.M)**.

Applicants are required to upload the following documents while filling online application, failing which their candidature will not be considered and Institute will not be responsible for the same.

1. A recent passport size colour photograph.
2. Self-attested copies of supporting documents:
 - i) Proof of age
 - ii) Educational mark sheets, degrees
 - iii) Experience Certificate
 - iv) Certificate of caste/community/class in prescribed format
 - v) Copy of payment receipt (if applicable)
 - vi) Any other relevant testimonials etc.

Please note that there is no need to send hard copies of the application & supporting documents.

In case of any issue in filing online application, kindly contact – recruitment@ipr.res.in

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