

**ADVT NO: 46/2020**

**(APPLY ON OR BEFORE NOVEMBER 20, 2020)**

**[Positions under Funded Projects purely on Temporary and Contractual Basis]**

Indian Institute of Science Education and Research Pune is a premier autonomous Institution established by the Ministry of Education, Government of India, for promotion of high quality science education and research in the country.

Institute invites applications from Indian nationals having excellent academic record and relevant work experience for the following positions purely on temporary and contractual basis under the funded project:

Post code - 1	Project Assistant / Project Fellow (Junior Research Fellow)
Number of posts	1 (One)
Name of the Project	"Quantum Information Technologies with ion-trap and optical-lattice devices"
Funding Agency	Department of Science and Technology (DST)
Project Code	<b>30119482</b>
Minimum Educational Qualification	M.E. / M.Tech in Mechanical Engineering or any other equivalent degree in related discipline
Preference	Candidates <ol style="list-style-type: none"><li>1. Having knowledge of design and development of precision mechanical components and systems; CAD and Cam;</li><li>2. Having know-how in Conceptualizing and designing mechanical components,</li><li>3. Performing mechanical Stress analysis, drafting 2D and 3D drawing, generating CNC machine readable files, and</li><li>4. Having ability to liaise with machinists towards the end goal of producing a finished component for use in experiments on quantum information processing and laser cooling will be preferred.</li></ol>
Tenure of the appointment	Initially for a period of one year which may be extended subject to continuation of the project and satisfactory performance of the incumbent.
Consolidated emoluments	1. Project Assistant – Rs. 19,840 + 24% HRA per month 2. Project Fellow (Junior Research Fellow)- Rs. 31,000/- +

	24% HRA per month based on <b>valid</b> CSIR-NET / GATE or equivalent scorecard
Age	Not more than 28 years as on last date of application
<b>Last date of application</b>	<b>November 20, 2020</b>

<b>Post code - 2</b>	<b>Project Assistant / Project Fellow (Junior Research Fellow)</b>
Number of posts	1 (One)
Name of the Project	"Quantum Information Technologies with ion-trap and optical-lattice devices"
Funding Agency	Department of Science and Technology (DST)
<b>Project Code</b>	<b>30119482</b>
Minimum Educational Qualification	M.E. / M.Tech in Electronics Engineering or any other equivalent degree in related discipline
Preference	Candidates having <ol style="list-style-type: none"> <li>1. Knowledge of design and development of Analog and Digital electronics, Programming and design of embedded control systems (Field Programmable Gate Arrays, Microcontrollers)</li> <li>2. Proficiency in C++, Python, Lab view and Matlab; Design and development of Data Acquisition systems will be preferred.</li> </ol>
Tenure of the appointment	Initially for a period of one year which may be extended subject to continuation of the project and satisfactory performance of the incumbent.
Consolidated emoluments	1. Project Assistant – Rs. 19,840 + 24% HRA per month 2. Project Fellow (Junior Research Fellow)- Rs. 31,000/- + 24% HRA per month based on <b>valid</b> CSIR-NET / GATE or equivalent scorecard
Age	Not more than 28 years as on last date of application
<b>Last date of application</b>	<b>November 20, 2020</b>

<b>Post code - 3</b>	<b>Research Associate (RA)</b>
Number of posts	1 (One)
Name of the Project	"Quantum Information Technologies with ion-trap and optical-lattice devices"
Funding Agency	Department of Science and Technology (DST)
<b>Project Code</b>	<b>30119482</b>
Minimum educational	Ph.D. in Theoretical Physics with a strong background in quantum information and computation.

Qualification	Candidates who have submitted thesis may also apply.
Preference	Candidates having their Ph.D. in quantum information and computation, quantum dynamics, quantum chaos, Bose-Einstein condensates and related areas with good experience in both analytical and non-trivial numerical computations will be preferred.
Tenure of the appointment	Initially for a period of one year which may be extended subject to continuation of the project and satisfactory performance of the incumbent.
Consolidated emoluments	1) Rs. 47,000/- + 24% HRA to Rs. 54,000/- + 24% HRA per month depending upon the experience 2) Candidates who have submitted their thesis but not completed defence (i.e. candidates without a provisional certificate of having qualified for the degree), will be designated as Senior Research Fellow (SRF) and paid Rs. 35,000/- + 24% HRA per month till the time of submission of Provisional Ph.D. certificate.
Age	1) Research Associate (RA): Not more than 35 years as on last date of application 2) Senior Research fellow (SRF): Not more than 32 years as on last date of application
<b>Last date of application</b>	<b>November 20, 2020</b>

<b>Post code - 4</b>	<b>Research Associate</b>
Number of posts	1 (One)
Name of the Project	"Quantum Information Technologies with ion-trap and optical-lattice devices"
Funding Agency	Department of Science and Technology (DST)
<b>Project Code</b>	<b>30119482</b>
Minimum educational Qualifications	Ph.D. in Experimental Physics with a strong background in Photonics, Quantum optics, Atomic physics and Laser spectroscopy. Candidates who have submitted thesis may also apply.
Preference	Candidates having their Ph.D. in the general area of experimental photonics or quantum optics or physics with ultracold atoms or precision measurements with atomic systems; a good working knowledge of experimental techniques in handling/designing control systems, stable laser systems, UHV systems and optical design will be preferred.
Tenure of the appointment	Initially for a period of one year which may be extended subject to continuation of the project and satisfactory

	performance of the incumbent.
Consolidated emoluments	1) Rs. 47,000/- + 24% HRA to Rs. 54,000/- + 24% HRA per month depending upon the experience 2) Candidates who have submitted their thesis but not completed defence (i.e. candidates without a provisional certificate of having qualified for the degree), will be designated as Senior Research Fellow (SRF) and paid Rs. 35,000/- + 24% HRA per month till the time of submission of Provisional Ph.D. certificate.
Age	1) Research Associate (RA): Not more than 35 years as on last date of application 2) Senior Research fellow (SRF): Not more than 32 years as on last date of application
<b>Last date of application</b>	<b>November 20, 2020</b>

### **HOW TO APPLY:**

- Interested candidates should send the application by email in the prescribed format available below this advertisement by email (**convert into PDF Format**) addressed to [phy\\_app@iiserpune.ac.in](mailto:phy_app@iiserpune.ac.in) on or before **November 20, 2020**. **Please mention the name of the Post and Post Code in the subject line of the email.**
- List of shortlisted candidates for selection process with details of date & time will be put up on the institute website below this advertisement and the shortlisted candidates will be informed by **e-mail** only. Therefore, please mention active Mobile Number and Email ID in the application form.
- Recent passport size photograph and photocopies of relevant certificates and other testimonials in support of age, qualification, experience etc. will be collected and verified at an appropriate stage.

### **General Information / details about the posts**

1. The appointment is purely temporary and will terminate automatically without any notice or compensation on termination of the project.
2. The appointed person shall have no claim of appointment / absorption in Funding Agency or in IISER Pune.
3. The appointment of the applicant will be governed by the terms and conditions of the funding agency particularly applicable to the said project.
4. The qualification prescribed should have been obtained from recognized Universities / Institutions.
5. The prescribed educational qualification is the bare minimum and mere possession of same does not entitle candidates to be called for selection process. Where number of applications received in response to this advertisement is large, it may not be convenient or possible to carry out selection process for all the candidates. Based on the recommendations of the Screening Committee, the Project Investigator may restrict the number of candidates to be called for the selection process to a reasonable limit after taking into consideration qualifications and experience over and above the minimum prescribed in the advertisement. Therefore, it will be in the interest of the candidates, to mention all the qualifications and experience in the relevant field at the time of applying.
6. Age relaxation commensurate with experience of the applicant may be considered with the prior approval of the competent authority.
7. No TA/DA will be admissible for appearing for the interview.

8. No interim enquiries / correspondence / communication of any sort will be entertained on the matter.
9. Canvassing in any form and / or bringing any influence, political, or otherwise, will be treated as a disqualification for the post applied for.

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**REGISTRAR**