

Advt. No.2/2024

**Announcement of research opportunities in photonic quantum science and technologies**

The Quantum Information and Computing lab at RRI Bangalore is working on several projects in the domain of photonic quantum science and technologies including secure quantum communications, quantum information processing, and quantum computing as well as quantum foundations. Opportunities are announced in research funded by projects under:

1. Quantum Experiments using Satellite Technology
2. Centre for Excellence in Quantum Technologies
3. India Trento Programme on Advanced Research
4. Quantum Enabled Science and Technologies

Sl No.	Manpower Position	Essential Qualification	Desirable Experience	Upper Age Limit (Years)	Monthly Emoluments (Rs.)
1.	Research Assistant -1	(i) BE / B.Tech (E&C, Electrical, Instrumentation) with at least 70% marks or 7.0 CGPA in the qualifying examination.	(i) Control of instruments using LabVIEW. (ii) Working knowledge of software like Matlab, C/C++ and/or Python. (iii) Knowledge of Arduino boards and their programming. (iv) Usage of various	The upper age limit is 30 years as on the last date of application. Applicants above 30 years may be considered if accompanied by	A consolidated remuneration of Rs. 31,000/- + admissible HRA per month.  Duration: Initially for a period of one

			(v) types of electro-optic instruments as well as interfacing test and measurement instruments in the laboratory. Knowledge of using CAD tools.	commensurate experience and competency.	year extendable to second year based on annual performance review.
2.	<b>Research Assistant -2</b>	(i) BE / B.Tech (E&C, Electrical, Instrumentation) or M.Sc (Optical Engineering) with at least 70% marks or 7.0 CGPA in the qualifying examination.	(i) Experience in digital electronics, FPGA-based systems, and VHDL scripts. (ii) Usage of optical system design software like ZEMAX/Rayoptics/Optics Studio. (iii) Working knowledge of software like Matlab, C/C++ and/or Python. (iv) Optical alignment. (v) Control of instruments using LabVIEW.	The upper age limit is <b>30</b> years as on the last date of application. Applicants above 30 years may be considered if accompanied by commensurate experience and competency.	A consolidated remuneration of Rs. 31,000/- + admissible HRA per month.  Duration: Initially for a period of one year extendable to second year based on annual performance review
3.	<b>Senior Project Associate</b>	Master's degree in engineering or technology from a recognized university or equivalent <b>AND</b>	(i) Hands-on experience with PCB/CAD design tools.	The upper age limit is <b>40</b> years as on the last date of application.	A consolidated remuneration of Rs.52,080/-  3% increase in salary on satisfactory

		<p>Two years experience in research and development in industrial and academic institutions <b>or</b> science and technology organizations and scientific activities and services.</p> <p>(i) Prior hands-on experience in handling Test and measurement instruments (Oscilloscopes, Spectrum analysers, Signal Generator etc.)</p> <p>(ii) Hands-on LabVIEW coding experience to interface various instruments.</p> <p>(iii) Working experience with programming languages like C,</p>	<p>(ii) Knowledge of Arduino boards and developing programming codes.</p> <p>(iii) Knowledge of Optical Simulations using Ray optics/Optics Studio or similar.</p>		<p>performance in annual review.</p> <p>Duration: Initially for a period of one year, extendable to another 3 years (or coterminous with the project whichever is earlier) based on annual performance review.</p>
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		<p>C++, MATLAB and Python.</p> <p>(iv) Control system design and implementation.</p> <p>(v) Analysis of systems and incorporate findings into subsystem interfaces, ability to troubleshoot issues and develop solutions.</p>			
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**How to apply:**

Interested candidates can apply by filling up an online form, and uploading all the relevant documents/images, including:

1. Scanned colour copies of educational certificates and mark sheets,
2. Curriculum Vitae (1-2 page),
3. Statement of purpose (1-2 page), as to what motivates the applicant to apply for the above post and why the applicant is the appropriate choice for the opening,
4. A recent passport-size photograph and signature Each applicant would need to provide references of two individuals whom the Institute could contact for referral letters. In case of any queries/help, please contact [recruitment@rri.res.in](mailto:recruitment@rri.res.in)

Link to the application:

**Applications may be made through the forms available at the following links:**

Research Assistant -1: [http://rhino.rrri.res.in/forms/ra1quic\\_022024.php](http://rhino.rrri.res.in/forms/ra1quic_022024.php)

Research Assistant -2: [http://rhino.rrri.res.in/forms/ra2quic\\_022024.php](http://rhino.rrri.res.in/forms/ra2quic_022024.php)

Senior Project Associate: [http://rhino.rrri.res.in/forms/spaquic\\_022024.php](http://rhino.rrri.res.in/forms/spaquic_022024.php)

**Last date for applying: 29<sup>th</sup> March 2024.**

**Applications received after the last date will not be considered.**

### **General Information:**

- (i) Age relaxation will be applicable as per Govt., of India rules for the candidates belonging to SC/ST/OBC/PWD categories.
- (ii) The institute reserves the right to restrict the number of candidates for interview to a reasonable limit, on the basis of relevant qualification and experience higher than the minimum prescribed in the advertisement.
- (iii) Shortlisted candidates will be requested to appear for a personal or online (zoom/skype) interview at the Raman Research Institute. No TA/DA will be paid for attending the interviews. Mere fulfilling the essential and desired qualifications will not entitle an applicant to be called for interview.
- (iv) The institute reserves the right to relax any of the above requirements in exceptional cases.
- (v) The Institute reserves the right, not to fill the post herein advertised.
- (vi) Canvassing in any form shall disqualify the candidate.