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.	**Scientist C**	(i) Doctoral Degree in Physics from a recognized university or equivalent. (ii) Three years' additional research experience.	**(i)** PhD **AND** research experience in the domain of experimental quantum science and technologies.	**42**	Rs. 1,00,100/- (Consolidated) Additional Contingency, Travel grant.
2.	**Project Scientist**	(i) Doctoral Degree in Physics from a recognized university or equivalent. *	(ii) PhD in the domain of experimental quantum science and technologies.	**35**	Rs. 69,440/- (Consolidated)

| 3. | Senior Project Associate | **(i)** Bachelor's degree in engineering **or** technology from a recognized university **or** equivalent **AND** Four years' experience in research and development in industrial and academic institutions **or** Science and technology organizations and scientific activities and services **OR**
Masters' degree in engineering **or** technology from a recognized university **or** equivalent **AND**
Two years' experience in research and development in industrial and academic institutions **or** science and technology organizations and | | 40 | Rs. 52,080/- (Consolidated) |

		scientific activities and services. (ii) Prior hands on experience in handling Test and measurement instruments (Oscilloscopes, Spectrum analyser, Signal Generator etc.) (iii) Hands on coding experience of Hardware description languages (Verilog, VHDL or HLS) as well as proven capability of design and development of FPGA based systems. (iv) Hands on experience with PCB/CAD design tools. Working experience with programming languages like C, C++, MATLAB and Python			
4.	**Project Associate II**	(i) Bachelor's degree in engineering **or** technology	(i) Prior hands on experience in handling Test and measurement	**28**	43,400/- (Consolidated)

		from a recognized university **or** equivalent (ii) Two years' experience in research and development in industrial and academic institutions **or** science and technology organizations and scientific activities and services	instruments (Oscilloscopes, Spectrum analyzer, Signal Generator etc.) (ii) Working knowledge of Hardware description languages (Verilog, VHDL or HLS) and familiarity with tools from major FPGA companies./Hands on coding experience of HDL. (iii) Knowledge of PCB design softwares. Familiarity with programming languages like C, C++, MATLAB and Python.		

* Candidates who have submitted their PhD thesis but yet to complete the formalities for award of degree may also apply for positions that have PhD as an essential requirement. They will be paid Rs.48,300/- (consolidated) till the award of the degree.

How to apply:

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

  Scientist C: http://rhino.rri.res.in:9900/forms/scientistc_pqst.php

  Project Scientist: http://rhino.rri.res.in:9900/forms/projscientist_pqst.php

  Senior Project Associate: http://rhino.rri.res.in:9900/forms/seniorprojassoc_pqst.php

  Project Associate II: http://rhino.rri.res.in:9900/forms/projassoc2_pqst.php

- Shortlisted candidates will be contacted for online interviews.

Last date for applying: 18 November 2021. 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.

(iv) 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.

(v) The institute reserves the right to relax any of the above requirements in exceptional cases.

(vi) The Institute reserves the right, not to fill the post herein advertised.

vii) Canvassing in any form shall disqualify the candidate.