

INDIAN INSTITUTE OF TECHNOLOGY, ROORKEE
(Department of Physics)

Dated: 24-10-2025

ADVERTISEMENT TO FILL UP PROJECT POSITIONS*

Applications are invited from Indian nationals only for project positions as per the details given below for the consultancy/research project under the Principal investigator Prof. Rajesh Kumar, Department of Physics, Indian Institute of Technology, Roorkee.

1. Title of project: RASPAC [Reconfigurable and scalable photonic qubit architecture for quantum computing, heterogeneous and monolithic approaches]-RK
2. Sponsor of the project: T-Hub, IIT Delhi under NQM Scheme by DST, New Delhi
3. Project positions and number: Project Fellow (01) & Junior Research Fellow (01)
4. Emoluments: For Project Fellow: Rs. 1,00,000 per month plus HRA@10%.
For Junior Research Fellow: Rs. 37,000 per month plus HRA@10 % for first two years, and then for SRF as per norms.
5. Qualifications and Job description: Please refer to Annexure-A

1. Candidates before appearing for the interview shall ensure that they are eligible for the position they intend to apply.
2. Candidates desiring to appear for the Interview should submit their applications with the following documents at the time of the interview.
 - Application in a plain paper with detailed CV including degrees/certificates obtained.
 - Experience including research, industrial field and any other.
 - Attested copies of degrees/certificates and experience certificates.
3. Candidates must bring their original degrees/certificates and experience certificates for verification at the time of the interview.
4. Preference will be given to SC/ST candidates on equal qualifications and experience.
5. Please note that no TA/DA is admissible for attending the interview.

Note: The selected JRF(Junior Research Fellow) candidate may get an opportunity for PhD admission.

The Walk-in interviews will be held in the Seminar Room, Department of Physics, on November 05, 2025 at 11 AM.

Tel:01332-28-4869

Fax:

RAJESH KUMAR
Name and signature
of Principal Investigator

Email: rajesh.kumar@ph.iitr.ac.in

24/10/2025

*To be uploaded on IIT Roorkee website and copy may be sent to appropriate addresses by PI for wider circulation.

Approved

Sponsored Research & Industry
Indian Institute of Technology Roorkee
Roorkee-247 667 (INDIA)

Annexure-A

Post	Qualification	Duration	Job Description
Project Fellow	- Ph.D. in degree in Science/Engineering/Engineering Science or equivalent. - Two years of experience in research/teaching or in electronics/photonics industry and having at least one SCI journal paper or at least one granted patent. - It is desirable that applicant has integrated photonics related research experience in computational/fabrication/experimental or a combination of these areas.	Till 31 st March 2031 or till the end of the project, whichever is earlier.	Project Fellow is supposed to work on integrated quantum silicon photonic devices and will involve combination of at least two of the following: computational/fabrication/experimental work. Additionally, Project fellow will be required to do any research/startup company related work that aligns with the goals of the project.
Junior Research Fellow	- M.Sc. in Physics/ Applied Physics/ Electronics/Electronic Sciences/, or M.Tech/ME in /Photonics/Optoelectronics/ Optoelectronics and Laser technology /Optoelectronics and Optical Communications or B.Tech/B.E in Engineering Physics/ Electronics and Communications or equivalent . - Applicant must have qualified NET/GATE. It is desirable that applicant has exposure to computational / experimental/fabrication related research work through UG/PG thesis work or internship(s).	Till 31 st March 2031 or till the end of the project, whichever is earlier.	Design/ simulations/ fabrication in clean room/measurements work regarding quantum silicon photonic devices/circuits.

 24/10/2025
 RAJESH KUMAR