

INDIAN INSTITUTE OF TECHNOLOGY, ROORKEE
(Department of Computer Science and Engineering)

Dated: March 15, 2023

ADVERTISEMENT TO FILL UP PROJECT POSITIONS*

Applications are invited from Indian nationals only for project position(s) as per the details given below for the research project under the Principal investigator (Name: Prof. Sugata Gangopadhyay), Department of Computer Science and Engineering, Indian Institute of Technology, Roorkee.

1. Title of project: Design and Development of Quantum Computing Toolkit (Simulator, Workbench) and Capacity Building
 2. Sponsor of the project: Ministry of Electronics & Information Technology (MeitY), Government of India
 3. Project position(s) and number:
 - Research Associate: 1 available position
 4. Minimum Qualifications:
 - Project Associate: B. Tech/M. Sc. in CSE/ECE/EE/Physics/Mathematics/Statistics.
 - Research Associate: M. Tech/Ph.D. in CSE/ECE/EE/Physics/Mathematics/Statistics
 5. Desirable Qualifications (at least one of the following):
 - Knowledge in fields related to quantum information and quantum computing.
 - Data Analysis, Bayesian Estimation Theory, Statistical Decision Theory, Statistical Learning Theory.
 - Signal Processing, Coding Theory, Analog Communication
 - Excellent academic credentials
 6. Emoluments:
 - Research Associate: Rs. 60,000/- + HRA per month
 7. Duration: up to completion of the project.
 8. Job description:
 - Design and development of course material on quantum computing using indigenous QC toolkit.
 - Design of quantum algorithms for the QC toolkit.
 - Analysis and mitigation of errors in quantum algorithms using quantum error correction techniques.
 - Exploring Quantum Machine Learning Algorithms.
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 to the office of Principal Investigator through email, by post or produce at the time of interview:
 - Application in a plain paper with a detailed CV, including chronological discipline of degree/certificates obtained. **Clearly mention the position(s) applied for.**


21/3/23


- Experience including research, industrial field and others.
 - Attested copies of degree/certificate and experience certificate.
3. The candidate shall bring along with them the original degree(s)/certificate(s) and experience certificate(s) at the time of interview for verification.
 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.

The last date for application to be submitted to the office of Principal Investigator is **21th March, 2023** by 5 PM.

The interview will be held at Department of Computer Science and Engineering on **27th March (Monday), 2023** at 10.30 AM (~~to be given only for~~ walk in interview)

Tel:

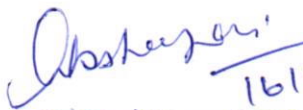
Fax:


Dr. Sugata Gangopadhyay
Name and signature
of Principal Investigator

Email: sugata.gangopadhyay@cs.iitr.ac.in

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

Approved


16/3/23
डीन (SRIC)/(Dean SRIC)
भा. प्रौ. सं. रुड़की/IIT Roorkee
Rejeer
16-3-2023 