

**INDIAN INSTITUTE OF TECHNOLOGY, ROORKEE**  
(Department of Electronics and Communication Engineering)

Dated: 20/06/2022

**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 consultancy/research project(s) under the Principal investigator: Vishvendra Singh Poonia, Department of Electronics and Communication Engineering, Indian Institute of Technology, Roorkee.

1. **Title of project:** Development of a biomimetic quantum photovoltaic cell
  2. **Sponsor of the project:** Science and Engineering Research Board (SERB), DST, Govt. of India.
  3. **Project position(s) and number:** Junior Research Fellow, 01 (one)
  4. **a. Essential qualifications:** B.E./B.Tech. or M.E./M.Tech. in Electronics and Communication Engineering or M.Sc./Int. M.Sc. in Physics or in appropriate discipline. GATE/ NET qualification is required.  
  
**b. Desirable qualifications:** Basic knowledge of quantum mechanics and nanoelectronics is required to carry out the work. Knowledge of open quantum systems would be preferred.
  5. **Emoluments:** Rs. 31,000 pm + HRA (8%).
  6. **Duration:** 1 year.
  7. **Job description:** To investigate electronic structure of coupled GaN quantum dots and study the exciton-phonon coupling in these systems.
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 before 10 pm, 27<sup>th</sup> June 2022** for screening:
    - Half page concise summary containing information about your academic background (graduation, postgraduation etc.) and relevant research experience.
    - Detailed CV including chronological discipline of degree/certificates obtained.
    - Attested copies of degree/certificate and experience certificate.
  3. Preference will be given to SC/ST candidates on equal qualifications and experience.  
Note: The selected candidate may get an opportunity for PhD admission.

Tel: +91-8097426535  
Email: [vishvendra@ece.iitr.ac.in](mailto:vishvendra@ece.iitr.ac.in)

*Vishvendra Singh*  
(Vishvendra Singh Poonia)  
Principal Investigator

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

*Approved*

*Abshay D.*  
20/6/22

डीन (सिक)/(Dean SRIC)  
आ. प्रौ. सं. रुड़की/IIT Roorkee