

INDIAN INSTITUTE OF TECHNOLOGY, ROORKEE  
DEPARTMENT OF BIOSCIENCES & BIOENGINEERING

Dated: 15/09/2022

**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 research project under the Principal investigator Prof. Partha Roy, Department of Biosciences and Bioengineering, Indian Institute of Technology, Roorkee.

- Title of project:** Development of a comprehensive in vitro and in vivo study design for understanding the **Pathophysiology of Bipolar Disorder**, associated biomarkers for its probable diagnostic and nutraceutical based therapeutic intervention
  - Sponsor of the project:** SKAN Research Trust, Puducherry
  - Project position(s) and number:** Junior Research Fellow (One number)  
**Qualifications:** Essential qualification: 1. M.Sc in Biotechnology/ Biochemistry/ Life Science/ M.Tech (Biotechnology)/ M.E. (Biotechnology) 2. Candidates should be qualified UGC-CSIR-JRF/ Lectureship or GATE or DBT JRF  
**Desirable qualification:** Candidates having prior experience in handling and culturing of mammalian cell lines (especially neuronal cell lines), induced pluripotent stem cells (iPSCs), differentiation of stem cells to neurons, analyzing the cell signaling in neuronal cells, developing animal models of neuronal disorders, various molecular biology techniques including cloning, like western blots, RT-PCR, immunoprecipitation assays will be preferred.
  - Emoluments:** Rs. 31,000/- per month plus admissible HRA
  - Duration:** Initially for two years extendable to another one year + one year (based on availability of funds). Position has a possibility of being converted to PhD studentship based on performance and progress.
  - Job description:** To develop in vitro (cell based) and animal (rodent) bipolar disorder models, optimize culture and differentiation conditions for iPSCs, screening chemicals using these cells (cell lines and iPSCs) for bipolar disorder drug development, functional analysis of bipolar disorder progression and its regulation (both at genetic and protein levels) using neuronal cells and rodent models towards the development of therapeutics, guiding the JRF and other project students in the lab, maintaining regular liaison with the collaborating laboratories in various parts of India.
- Candidates before appearing for the interview shall ensure that they are eligible for the position they intend to apply.
  - Candidates desiring to appear for the **Online Interview** should submit their applications with the following documents to the office of Principal Investigator through email (most preferable) or by post **as a single PDF file**:
    - Application in a plain paper with detailed CV including chronological discipline of degree/certificates obtained.
    - Experience including research, industrial field and others.
    - Attested copies of degree/certificate and experience certificate.
  - Preference will be given to SC/ST candidates on equal qualifications and experience.
  - Last date for submission of application is September 25, 2022, 5:00 PM.**
  - The shortlisted candidates will be intimated for an "Online interview" tentatively to be held on September 27, 2022. The time and link will be shared prior to that.
  - Candidates those who already applied against the earlier advertisement dated 19/8/2022, need not apply again. Their applications will be considered automatically.

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Name and signature PI

Partha Roy  
15/9/2022

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

APPROVED

Abshar Khan  
15/9/22

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

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