

## Three (3) JRF Positions in Physics/Nanotechnology

Applications are invited for three posts of Junior Research Fellow for a DST-Nanomission funded project entitled “Self-Charged energy storage devices based on defect engineered advanced heterojunction materials” in Discipline of Physics/Chemistry/Materials Sciences, **Centre for Nano and Material Sciences (CNMS)**, Jain University Bangalore, Karnataka.

### Qualification and Experience:

1. M. Sc. in Physics/ Chemistry/Materials Science/Nanotechnology, Candidate should have obtained at least 55% marks in qualifying degree examination.
2. Preference will be given to CSIR-UGC NET (JRF/LS) or GATE qualified candidates.
3. The ability to work closely and collaborate with colleagues is a must. Proficiency in English language is required.

### Stipend:

The salary and appointment terms are consistent with the current rules for PhD degree students of Jain University.

**Duration:** Initial appointment for one year, extendable up to 3 years based on performance.

Objective of the 3 years position is a number of research articles in peer-reviewed scientific journals, together comprising the PhD thesis leading to the granting of the PhD degree at the Jain University.

### How to apply:

Application should contain a detail resume, one photograph, contact details including phone number, email and postal address and photocopies of educational/professional qualifications. **Please also mention preferred date of joining, if selected.**

Completed applications should reach Dr. Chandra Sekhar Rout, (Associate Professor) by **30<sup>th</sup> October 2019** through e-mail (E-mail: [r.chandrasekhar@jainuniversity.ac.in](mailto:r.chandrasekhar@jainuniversity.ac.in) CC to: [csrout@gmail.com](mailto:csrout@gmail.com))

Please also arrange at least two references that may be contacted regarding your recent work.

Only shortlisted candidates will be called for the interview. Selected candidates will be intimated by email. No TA/DA will be paid for appearing in the interview (**Interview through Skype is also possible on request**).

### Project involves:

The project involves synthesis, characterization, theoretical investigations, electrochemical studies and applications of two dimensional transition metal dichalcogenides nanostructures and composites. Further, it is aimed to fabricate novel self-powered energy storage devices and microsupercapacitors based on the proposed functional materials, understanding the mechanisms involved in energy storage performance by operando spectroscopic investigations and density functional theory studies.

### Contact:

Dr. Chandra Sekhar Rout  
Associate Professor,  
Center for Nano and Material Sciences,  
Jain University, Jain Global Campus, Jakkasandra Post,  
Bangalore. Pin 562112  
Email: [r.chandrasekhar@jainuniversity.ac.in](mailto:r.chandrasekhar@jainuniversity.ac.in); [csrout@gmail.com](mailto:csrout@gmail.com)  
<https://cnms.jainuniversity.ac.in/Faculty-Chandra-Sekhar-Rout.htm>  
<https://scholar.google.co.in/citations?user=dM7BMeIAAAA&hl=en>