

### Opening for the JRF Position in Physics/Nanotechnology

Applications are invited for the Junior Research Fellow for a SERB-DST funded project entitled “Soil nitrate and environmental NO<sub>x</sub> gas monitoring by advanced MXene based hybrid materials” in Discipline of Chemistry/Physics/Materials Sciences, **Centre for Nano and Material Sciences (CNMS)**, Jain University Bangalore, Karnataka.

#### Qualification and Experience:

1. M. Sc. in Chemistry/Physics/Materials Science/Nanotechnology or M. Tech, 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 candidate.
3. Experience in Materials research and materials characterization.
4. The ability to work closely and collaborate with colleagues is a must. Proficiency in English language is required.

#### Stipend:

The JRF fellowship is as per the University rule. The salary and appointment terms are consistent with the current rules for PhD degree students.

**Duration:** Initial appointment for one year, extendable up to 3 yrs 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 Professor Chandra Sekhar Rout through e-mail (E-mail: [r.chandrasekhar@jainuniversity.ac.in](mailto:r.chandrasekhar@jainuniversity.ac.in))

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 Online mode is also possible on request).

#### Project involves:

The project involves fabrication and evaluation of the gas sensing performance of chemiresistive gas sensors based on the MXene based hybrid materials. The sensing performance of the device will be characterized by studying its sensitivity, selectivity, response/recovery times, limit of detection, cycling stability, working temperature and performance in real environmental condition.

#### Contact:

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