

JRF Position in Chemistry

Applications are invited for the post of Junior Research Fellow for a project entitled “Ru (II) - Catalyzed Tandem Oxidative Cyclization–Trifluoromethylation of Enamines and Synthesis of Analogs of Bioactive Compounds” in Discipline of Chemistry, **Centre for Nano and Material Sciences (CNMS)**, Jain University Bangalore, Karnataka.

Qualification and Experience:

1. M. Sc. in Chemistry, 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. The ability to work closely and collaborate with colleagues is a must. Proficiency in the English language is required.

Stipend:

The JRF is given Rs.15000/- stipend per month as per the University rule. The salary and appointment terms are consistent with the current rules for Ph.D. degree students.

Duration:

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

How to apply:

The application should contain a detailed resume with a 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. Rakesh Kumar, (Assistant Professor) by **20 June 2017** through e-mail (E-mail: rakeshccny@gmail.com CC to amit.kumar@jainuniversity.ac.in

It is advised to mention 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.

Project involves:

Fluorinated organic compounds constitute a major part of modern pharmaceutical and agrochemical industries. Photoredox Catalysis has emerged as an energy efficient approach to the organic synthesis of bioactive molecules. The project involves the use of photo-redox catalysis for the synthesis of trifluoromethylated aminoindanes and trifluoromethylated tetrahydroquinolines *via* the cascade process of oxidative cyclization and trifluoromethylation of suitable enamines. Aminoindanes and tetrahydroquinolines comprise of a class of biologically important compounds. The trifluoromethyl analogs of biologically active aminoindanes and tetrahydroquinolines will be synthesized and evaluated for their bioactivity.

Contact:

<p>Dr. Amit Kumar, Associate Professor, Centre for Nano and Material Sciences, Jain University, Jain Global Campus, Jakkasandra Post, Bangalore - 562112 Email: amit.kumar@jainuniversity.ac.in https://cnms.jainuniversity.ac.in/Faculty-Amit-Kumar.htm</p>	<p>Dr. Rakesh Kumar, Assistant Professor, Centre for Nano and Material Sciences, Jain University, Jain Global Campus, Jakkasandra Post, Bangalore - 562112 Email: rakeshccny@gmail.com https://cnms.jainuniversity.ac.in/Faculty-Rakesh-Kumar.htm</p>
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