

POST CODE- 4

Job Reference: AK-JRF-DST/02/2014

**One JRF Position in Chemistry Available in the Group of Dr. Amit Kumar (Associate Professor, CNMS, Jain University)**

Applications are invited for one post of a Junior Research Fellow in a DST-sponsored research project (letter no.CS-097/2013) entitled “**The development of novel transition metal therapeutic compounds and their interaction between bio-macromolecules**” 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 with the English language is required

**Stipend:**

The JRF fellowship consists of Rs.15000/- per month and Rs 1000/- for PF and PT as per 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, photocopies of educational/professional qualifications. **Please also mention preferred date of joining if selected.**

Completed applications should reach Dr. Amit Kumar, Associate Professor, Bioinorganic and Clinical Chemistry Group, Centre for Nano and Material Sciences (CNMS), Jain Global Campus, 45 km, NH - 209, Jakkasandra Post, Kanakapura Taluk, Ramanagar District -562 112, Bangalore Rural, Karnataka, India by **20<sup>th</sup> March, 2014**. Applicants are encouraged to apply through e-mail (E-mail: [amit.kumar@jainuniversity.ac.in](mailto:amit.kumar@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.

**Project involves:**

It is planned to prepare and characterize new Ruthenium and Vanadium complexes with anti-tumor and anti-parasitic activity, as well as anti-diabetic activity (V-compounds). The influence of the binding of therapeutic drugs to serum proteins on their transport by blood plasma and uptake by cells is well recognized. The stability and reactivity of the compounds prepared towards blood plasma constituents namely transferrin and albumin will be studied to evaluate their bioavailability, as well as their capacity to interact with DNA. The toxicity, anti-tumor and anti-parasitic activity will be evaluated *in-vitro* with adequate cell lines.

**Contact:**

Dr. Amit Kumar

Associate Professor

Bioinorganic and Clinical Chemistry

Centre for Nano and Material Sciences

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