

POST CODE- 2

Job Reference: RKP-Postdoc/02/2014

One Postdoctoral Position in Organic / Polymer Chemistry Available in the Group of Dr. Ranjith Krishna Pai (Associate Professor, CNMS, Jain University)

Applications are invited for one postdoctoral position for a project entitled “**Organic electronics for solar cells and transistors**” at **Centre for Nano and Material Sciences (CNMS), Jain University, Bangalore**, Karnataka, India.

Qualifications and Experience:

1. Ph.D. in Organic/ Polymer Chemistry OR Electrical Engineering
2. Prospective candidates should have a Ph.D. in Organic/Polymer Chemistry OR electrical engineering. Good experimental skills (experience with electronic equipment certainly helps). A solid basic understanding of semiconductor physics and/or optoelectronics. Ideally, the applicant should have experience with organic electronics. The ability to work closely and collaborate with colleagues is a must. Proficiency with the English language is required

Conditions of employment:

The university offers a salary of Rs 35000/- per month. Appointment is for 1 year, and can be extended to 2-3 years based on performance. Candidates must be trained in organic/polymer synthetic methodologies, chromatographic purification and characterization of the compounds (IR, NMR and other commonly used spectroscopy technique).

How to apply:

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

Completed applications should reach Dr. Ranjith Krishna Pai, Associate Professor, Nanostructured Functional Materials & Devices 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 **18th March, 2014**. Applicants are encouraged to apply through e-mail (E-mail: ranjith.pai@jainuniversity.ac.in).

Please 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.

About project:

New material design, solar cell fabrication, optimization and testing. We are seeking candidates with an expertise in organic thin films for use in electroluminescence, solar cells, thin film transistors and other photonic devices. Qualifications should include hands-on, in-depth experience with the design, vacuum deposition, device fabrication, analysis and characterization of active optical components such as organic solar cells, detectors & to perform I-V measurements and calculate critical parameters such as short circuit current density (J_{sc} mA cm⁻²), open circuit voltage (V_{oc}), fill factor (FF), power conversion efficiency (PCE) etc. Successful candidates should be able to work on independent research projects, as well as maintaining laboratory facilities and infrastructure is an important part of the job.

Contact:

Dr. Ranjith Krishna Pai

Associate Professor

Nanostructured Functional Materials & Devices Group

Centre for Nano and Material Sciences

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