



DEPARTMENT OF CHEMICAL ENGINEERING
INDIAN INSTITUTE OF TECHNOLOGY
(BANARAS HINDU UNIVERSITY) VARANASI-221005
UTTAR PRADESH, INDIA

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**Recruitment of Junior Research Fellow in a DST Nano Mission Project in the Department of Chemical Eng.
IIT(BHU)**

Project Reference No: **R&D/DST/LT/ChE/15-16/05/**

Applications are invited from Indian nationals for the following position in the research project entitled “Development & Evaluation of Infrared Nanoparticles for Cellular-Wide Sensitive E-field Mapping” sponsored by Department of Science & Technology (DST) Nano Mission, Government of India, New Delhi for a period of three years.

Name of the position	Candidates interested to extend their JRF to Ph.D. will be preferred
Number of positions	1
Duration of Position	One year. Extendable based on performance
Emoluments (p.m.)	Rs. 25,000 + 20% HRA per month
Educational qualification	Essential: (a) Post graduate degree in Chemistry or Physics with NET qualification or Graduate degree in Chemical Engineering. (b) Minimum 55% marks or equivalent CGPA in preceding degree. Experience in nanoparticle synthesis, surface modification, characterization is required. Desirable: candidates having knowledge of cell-culture, fluorescence imaging, nanomaterial characterization will be considered as an advantage. Candidates with publications in reputed journal in the above field will be given priority. Candidates with better performance will be preferred.
Age	28 years. Age relaxation applicable as per Government of India (GoI) rules.
Project Detail	We intend to develop fluorescent nanomaterial having property to change its fluorescence emission in the presences of high electrified. This will be utilized to fluorescently image the electric potential within the cell. Conventionally it is achieved by patch-clamp method, which is limited in nature. This method will provide us data for overall cytoplasmic E-field.

General Terms and Conditions:

1. The position is purely temporary and is coterminous with the project.
 2. The PI has the discretion to restrict the number of candidates to be called for interview to a reasonable limit on the basis of qualifications and experience higher than the minimum prescribed in the advertisement.
 3. Only shortlisted candidates will be communicated to appear in the interview and no other communications in this regard will be entertained.
 4. The candidate is expected to join immediately, if selected.
 5. No TA/DA will be paid for attending the interview.
- Application on Plain paper giving Name, Permanent and Correspondence address, Names of the Father and Mother, Telephone number and e-mail address, details of educational career (starting from High School or equivalent), GATE/NET score card, along with the self-attested copies of all mark-sheets & certificates and details of any research or other experience etc., if any, should reach the **Principal Investigator** before (28.02.17). Applicants can also send their scan copy of singed applications by email to the principal Investigator at: **manojk.che@iitbhu.ac.in**