Applications are invited for

**Institute Post-Doctoral Fellows**

at

**Center for Nanosciences, Indian Institute of Technology, Kanpur**

**Job specifications:** Scientific Research in the ongoing themes of the center with an interdisciplinary group of faculty members covering nanofabrication (self-assembly, top-down) and its applications in following area:

(A) Energy: Solar cells, micro batteries, fuel cells, Supercapacitors

(B) Health care: Bio-nanomaterials and devices, drug delivery, cell tissue scaffolds and development of nono-bio platforms for the early detection of diseases.

Emphasis is on soft matter and soft routes of nanofabrication such as soft lithography, electrospinning, cell culture etc and a variety of functional nanomaterials and interfaces. For further details on the center and ongoing research one can check:

http://www.iitk.ac.in/nanoscience/

**Minimum Qualification:** Ph.D. in Physics/Chemistry/Biology/any discipline in Engineering with background in nanoscience/nanotechnology. Candidate should have good publication track-record in any of the above mentioned themes.

**Desired Qualification:** Candidates should have proven hands on experience with publications in synthesis, analysis and characterization in at least one of the areas mentioned below:

1. Micro-nanofabrication using conventional or non-conventional methods (lithography using beams, ions and pattern transfer) and experience in handling tools such as SEM/HRTEM, AFM, and XRD, micro-raman mapping and analysis.
2. Cell and bacterial culturing and analysis with hands on experience in using tools like PCR, fluorescence microscopy, Elisa reader, nanodrop, cell sectioning and TEM/microscopy analysis.

**Salary Range:** Fellowship amount will be 60,000- per month for the first year, 65,000- per month for the second year and 70,000- per month for the third year.

**Contingency amount:** 1,00,000 per year for travel, research publications, analysis of samples, purchase of books not available in library and contingency etc. approved by HOD & DORD. This shall be paid from the Institute account.

**Tenure:** Each appointment will be made initially for one year and it may be extended subject to satisfactory performance. Under no circumstances the fellowship duration can exceed three years.
**Accommodation:** Postdoctoral Fellows may be provided accommodation as per availability either in student's hostel or in R.A. hostel. The charges will be applicable as per the PG student’s hostel norms / R.A. hostel norms of DORO. In case accommodation cannot be provided within the campus, HRA may be paid @ 16% of the fellowship amount for off-campus housing.

The institute reserves the right to fix suitable criteria for short listing of eligible candidates satisfying qualification and experience. Only shortlisted candidates may be called for an interview.

**Application Deadline:** Interested candidates can apply before **October 20th 2020.**

**How to Apply:** To apply click on the link: [https://pingala.iitk.ac.in/IITKFR-0/login](https://pingala.iitk.ac.in/IITKFR-0/login) and get registered yourself in Pingala. After registration login and click on the Apply Button. While applying Choose “**CENTER FOR NANOSCIENCES**” from dropdown menu.

**For any query contact:** prabhatd@iitk.ac.in or manishm@iitk.ac.in

**Contact No:** 0512-259-6264