



# Nanotechnology Application Centre

(A DST Funded Research Centre under Nano-Mission)

UNIVERSITY OF ALLAHABAD

ALLAHABAD – 211 002 (INDIA)

Dr. Avinash C Pandey  
Professor

Principal Investigator, HFIBF  
Nanotechnology Application Centre  
Tel.: +91-532-2460675 (O); 2420620(R); +91-9415215512(Mo)  
E-mail: [avinashcpandey@rediffmail.com](mailto:avinashcpandey@rediffmail.com)

## VACANCY

### Vacancies Description

1. **Scientist D (Two)\***: Pay scale ₹15,600-39,100, GP ₹7600 and applicable emoluments as per DST norms
2. **Scientist B (Two)\*\***: Pay scale ₹15,600-39,100, GP ₹5400 and applicable emoluments as per DST norms
3. **Project Assistant Level-II (Three)**: @₹ 20,000-20250/pm (Consolidated)

\*Likely to be made permanent if approved by the executive council of the University.

\*\* Likely to be made permanent if created and approved by the executive council of the University.

The number of posts may increase or decrease.

### Job Description

The **Nanotechnology Application Centre**, Institute of Interdisciplinary Studies, University of Allahabad, Allahabad, India ([www.alluniv.ac.in](http://www.alluniv.ac.in)) invites applications for scientific-staff –Non Teaching (**Likely to be made permanent**, contingent upon time-to-time review) to operate and maintain “**High Fluence Ion-Beam Facility (HFIBF)**” towards achieving the goals of user utilization by strengthening the user base, to be monitored on quarterly basis, sanctioned by Department of Science and Technology, Ministry of Science and Technology, Government of India, New Delhi having Sanction No. SR/MF/PS-04/2017/G dated 23/03/2018 at Nanotechnology Application Centre, University of Allahabad.

Applicants are invited to apply for the same who will strengthen and expand the core areas of Physics/Biology with Ion Beam.

The target areas to complement, Implementation, and expansion of existing programs include

- Ion implantation in semi conductor materials.
- Ion implantation in non semi conductor materials
- Study on ion implanted liquid crystals (LC's), Dielectric, electro-optic and switching properties of ion implanted LCs, Tuning of the electro-optical properties of LC display materials by ion beam irradiations
- The Effect of Ion-Beams on Polymer Nanocomposites
- Thermoelectricity with Ion Beam Irradiation
- Ion beam synthesis of patterned quantum dots for device applications
- Thermo-mechanical and Microscopic Characterization of Polymer Nanocomposites under ion bombardment
- Any other proposal submitted by users

### Who Should Apply

**For position 1 (i.e. Scientist D)** candidates must have **PhD degree in Physics/Material Science/Nano Science/Biotechnology** along with **6 years research experience** in the field of Ion-Beam related technology. These candidates are expected to have in-depth theoretical and in hand experimental knowledge of *Electron Cyclotron Resonance Source based Ion Implanter, Low Energy High Fluence Ion Beam, Ion Implantation, Control Command System, High Vacuum, High Voltage, Synthesis of Nanostructures, Materials Modifications, characterizations etc* during **their doctoral and post-doctoral work**.

The upper age limit shall be as per DST norms.

**For position 2 (i.e. Scientist B)** candidates must have Master's Degree in **Physics/Material Science/Nano Science/Biotechnology**. It is desirable that the candidate has doctoral degree in abovementioned disciplines with **research experience** in the field of Ion-Beam related technology. These candidates are expected to have in-depth theoretical and in hand experimental knowledge of *Low Energy High Fluence Ion Beam, Ion Implantation, Synthesis of Nanostructures, Materials Modifications, operating knowledge of characterization tools such as XRD, TEM, SEM, VSM, TG/DTA, Nano Indentation, Micro RAMAN, SPM etc*.

The upper age limit shall be as per DST norms.

**For position 3 (i.e. Project Assistant Level-II)** post graduate in science and keenly interested in instrumentation. Preference shall be given to them who have certificate from BARC for radiological safety.

### How and Where to Apply

Candidates possessing the requisite qualification may apply on prescribed application form (to be downloaded from University website), contact details and other enclosures [all testimonials, certificate for research experience during PhD and Post-Doctoral (for position 1&2), no objection certificate and references from at least two eminent persons of the field of study who has been directly involved with the academic work of the candidate] to reach the following address **within 20 days** from the date of this advertisement: “**Prof. Avinash C. Pandey, Principal Investigator, HFIBF and Nanotechnology Application Centre, Science Faculty Campus, University of Allahabad, Allahabad 211 002, India**” with an electronic copy to [prof.acpandey@gmail.com](mailto:prof.acpandey@gmail.com). Suitable candidates will be informed by Email for interview subsequently. No TA/DA shall be paid to shortlisted candidates for appearing in interview/test.

REGISTRAR

Principal Investigator: Nanotechnology Application Centre  
Coordinator: KBCAOS, MNSCSS, Institute of Interdisciplinary Studies,  
University of Allahabad, Allahabad 211002, India.