



# Nanotechnology Application Centre

(A DST Funded Research Centre under Nano-Mission)  
University of Allahabad, Allahabad 211 002, India

## Vacancy

### Vacancies Description

1. **Scientist C (One)\*:** Pay scale Rs 15,600–39,100, GP Rs 6600 + HRA@20% + Medical Allowance @ Rs 500 p.m. + New Pension Scheme Contribution Rs 2100 p.m.
2. **Scientist B (One)\*:** Pay scale Rs 15,600–39,100, GP Rs 5400 + HRA @20% + Medical Allowance @ Rs 500 p.m. + New Pension Scheme Contribution Rs 2100 p.m.
3. **JRF (Two):** Leading to Ph.D. Degree @ Rs 18,000–18,000–20,000–20,000–20,000 p.m. + HRA @20% + Medical Allowance Rs 500 p.m.
4. **Project Assistant Level-II (Three):** @ Rs 8000 p.m. (consolidated)

\*Likely to be made permanent after five years of successful completion of the project as approved by the executive council of the University.

### Job Description

The Nanotechnology Application Centre, Institute of Interdisciplinary Studies, University of Allahabad, Allahabad, India ([www.alliduniv.pio.org](http://www.alliduniv.pio.org)) invites applications for tenure-track scientific-staff positions (for maximum five years/likely to be made permanent after five years, contingent upon time-to-time review) to complement, implement and expansion of project 'High Fluence Ion-Beam Facility (HFIBF)' sanctioned by Department of Science and Technology, Ministry of Science and Technology, Government of India, New Delhi under Nano Mission having Sanction no. IR/S2/PF/0001/2009 dated 29/09/2010 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 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.

### Who should apply

**For position 1 and 2 (i.e. Scientist B and C)** candidates must have Ph.D. degree in Physics/Material Science along with 2–3 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, Synthesis of Nanostructures, Materials Modifications, Characterizations, etc. during their doctoral and post-doctoral work.

**For position 3 (i.e. JRF)** candidates who have passed M.Tech./M.Sc. in Physics/Material Science/ Nanoscience with consistently good academic record and are keenly interested in Research and D.Phil. should apply. The student who have attended/completed Pre Ph.D. courses at IUAC (NSC) or/and qualified NET/GATE and/or the CRET examination of University of Allahabad may be preferred. The selected candidates have to devote full time in research work in the area described as per above.

The upper age limit shall be as per DST norms.

**For position 4 (i.e. Project Assistant Level-II)** graduate in any discipline who have passed 10 + 2 in Science with good academic record and are keenly interested in instrumentation.

### 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 Ph.D. and Post-Doctoral (for position 1 and 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 and Head, Nanotechnology Application Centre, Science Faculty Campus, University of Allahabad, Allahabad 211 002, India with an electronic copy to [prof.avinashcpandey@gmail.com](mailto:prof.avinashcpandey@gmail.com). Suitable candidates will be informed by e-mail for interview subsequently. No TA/DA shall be paid to shortlisted candidates for appearing in interview/test.