



INSTITUTE OF NANO SCIENCE & TECHNOLOGY

(An Autonomous Research Institute of the Department of Science and Technology, Government of India)

Habitat Centre, Sector-64, Phase-X, Mohali-160062, Punjab

No: 14(8)/2018-INST

Date: 11.10.2018

Advertisement for Junior Research Fellow under “DBT” Project

Applications are invited from highly motivated and bright candidates for the position of Junior Research Fellow in the following research project funded by DBT, Government of India, under the supervision of Prof. Deepa Ghosh, Principal Investigator, at Institute of Nano Science and Technology, Mohali.

Title of the Research Project: “Development of advanced third generation matrix associated chondrocytes for cartilage repair”

Name of the position available: Junior Research Fellow (JRF)

Number of positions available: One

Essential Qualifications:

1. Masters in Chemistry/Biochemistry/Biophysics /Biotechnology/Pharmacy

2. Qualified **any one** of the following:

CSIR/UGC National Eligibility test or LS
Graduate Aptitude Test in Engineering (GATE)
Joint Admission Test (JAM)
Graduate Pharmacy Aptitude Test (GPAT)
ICMR-JRF/ICAR-AICE/JEST/JGEEBILS

Desirable Experience: Research experience in Organic Synthesis/Synthesis of Nanomaterials is preferable.

Age limit: Must not be over 28 years as on 31st October, 2018 which is relaxed up to 5 years for SC/ST/ PH/ OBC/Women candidates.

Salary: Rs.25000 + 20% HRA

Project duration: 3 years

Brief details of the work to be undertaken: Development of a novel injectable, hydrogel matrix using bottom-up self-assembly of nanofibers. The gel-sol-gel property of the hydrogel would be further used for cell culture and direct implantation of the cell-hydrogel composite into the damaged cartilage. The work will require synthesis of supramolecular peptide as well as polymer-peptide conjugate hydrogels, assessment of their physical properties including gel-sol-gel formation, stability over long term culture, typical stress-strain behavior, hydrolysis, crosslinking, swelling studies etc. Further biological properties like, biocompatibility, as well as biodegradability of these designed materials will be studied.

Interested candidates are requested to send their applications (for application refer to our website www.inst.ac.in) along with their CV to deepa.ghosh@inst.ac.in on or before 31st October, 2018. The subject should state “**Application for Project JRF**”

General Terms and Conditions:

The position is purely temporary and on contractual basis, renewable each year subject to satisfactory performance for a maximum of **two** years. The position is **co-terminus** with the project. Candidate selected for this position can also apply for the regular PhD program of INST provided they satisfy eligibility criteria.

Only shortlisted candidates will be communicated to appear for a personal discussion/ interview and no other communications in this regard will be entertained. **A hard copy of the application form along with attested photocopies of age proof, certificates, degrees and mark sheets should be presented at the time of the interview.**

The date, time and venue of the interview will be sent through email. No TA/DA is admissible for attending the interview.

Note: Shortlisted candidates residing beyond 500 km from Mohali may appear through Skype for the interview.

For further clarifications contact:

Professor Deepa Ghosh, Scientist-F/ Professor

Institute of Nano Science and Technology, Habitat Centre, Phase-X,

Sector-64, Mohali, Punjab – 160062. Email: [**deepa.ghosh@inst.ac.in**](mailto:deepa.ghosh@inst.ac.in)