



# INSTITUTE OF NANO SCIENCE AND TECHNOLOGY

(An Autonomous institute of Department of science and Technology, GOI)

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

## **Advertisement for Research Associate under “DBT” Project**

Walk-in-Interview will be conducted on 8<sup>st</sup> March 2019 for highly motivated and bright candidates holding a PhD degree for the position of Research Associate 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:** Research Associate (RA)

**Number of positions available:** One

**Essential Qualifications:** The applicant should hold a Ph.D. degree in the area of Science (Chemistry/Biology/Pharmacy/Nanoscience etc) or should have submitted his/her PhD thesis in the mentioned field.

Proven research competence in any of the above related areas.

Should have a very good academic record and have evident capabilities of becoming independent investigators in future.

**Desirable Experience:** Research experience in Tissue engineering/ Polymer synthesis/Organic Synthesis/Synthesis of Nanomaterials is preferable.

**Age limit:** 35 years as on 8<sup>th</sup> March 2019 (relaxation of 5 years for SC/ ST/ PH/ Women and 3 years for OBC category).

**Salary:** Rs.36000 + 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.

**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.

**A hard copy of the application form along with attested photocopies of age proof, certificates, degrees & mark sheets should be presented at the time of the interview.**

**Date of interview & Reporting Time:** 10:00AM on 8<sup>th</sup> March 2019 at INST Mohali.

For further clarifications contact:

Professor Deepa Ghosh, Scientist-F/ Professor

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