

CHANDIGARH

Chandigarh is a union territory of India, that serves as the capital of two states, Punjab and Haryana. It is referred to as The City Beautiful. The gently sloping plains on which modern Chandigarh exists, was in the ancient past, a wide lake ringed by a marsh. The fossil remains found at the site indicate a large variety of aquatic and amphibian life, which was supported by that environment. About 8000 years ago the area was also known to be a home to the Harappans. As the first planned city of India, Chandigarh is known internationally for its architecture and urban planning. Chandigarh is home to numerous architectural projects of Le Corbusier, Pierre Jeanneret, Matthew Nowicki, and Albert Mayer. The city tops the list of Indian States and Union Territories with the highest per capita income in the country. As per a study conducted by Ministry of Urban Development, Chandigarh has emerged as the cleanest city in India. The city is surrounded by a 16 kilometer wide greenbelt to ensure that no development could take place in the immediate vicinity of the town, thus checking suburbs and urban sprawl; hence is famous for its greenness too. Though the city, being relatively very young, does not have historical monuments to boast of, it definitely manages to impress the tourists with its modern architecture and natural beauty (parks, lakes, etc).

ELIGIBILITY

Young faculty, Postdoctoral fellows or Research Associates and Ph.D students working in areas of Life Sciences.

APPLICATION PROCEDURE

Due to limited seats, the applicants are requested to submit a write up to nanobio@inst.ac.in, with the following information

- Name, Gender, Date of Birth, Address, E-mail, Mobile number
- Justification towards attending the workshop (250 words)
- Recommendation letter from Supervisor/ HOD/ Head of Institute/ Registrar. This letter should also endorse that the applicant has not attended any workshop on Nano Science and Nano Technology in the past.

SELECTION PROCEDURE

All the applications received will be screened by a Screening Committee and the candidates will be shortlisted based on their research area, experience and publications.

IMPORTANT NOTE

- There is no Registration fee.
- All the expenses related to Travel (as per DST norms), Accommodation and Food will be covered for all selected candidates.

IMPORTANT DATES

- Start date of application: **15th September 2017**
- Deadline for submission of application : **26th September 2017**
- Announcement of Shortlisted candidates: **5th October 2017**



NANO MISSION SCHOOL ON "NANO SCIENCE & NANO TECHNOLOGY- BIOLOGICAL SCIENCES"

6th – 11th NOVEMBER, 2017

Organized by
**Institute of Nano Science and
Technology (INST)**

Sponsored by
**Nano Mission
Department of Science and Technology,
Government of India**



Nanotechnology, the manipulation of matter at the atomic and molecular scale to create materials with remarkably varied and new properties, is a rapidly expanding area of research with huge potential to revolutionize our lives and to provide technological solutions to our problems in agriculture, energy, environment and medicine.

TOPICS COVERED

- Nano Biotechnology
- Cancer Biology and Nano Therapy
- Nano Bio in Pharma
- Nano Bio in Agriculture
- Nano Toxicology

EXPERT LECTURES

- Introduction to Nano technology
- The Emerging Role of Nanotechnology in Tissue Engineering
- Biological Nanomachines
- Nano biosensors for quality life: Design, development and applications
- Nanotherapy for Glioblastoma
- Hyperthermia cancer treatment
- Nano-carrier mediated drug delivery in cancer

- Overcoming biological barriers in nanotherapy
- Nanotechnology approaches for inhalation treatment of lung diseases
- Oral Nanotherapeutics for neglected diseases
- Toxicological Screening of Nano-materials
- A Decade of Nanotoxicology: Impact on Human Health and the Environment
- Nanotechnology in eco-friendly crop protection
- Nanotechnology in crop nutrient supply
- Nanotechnology in food processing
- Model Systems in Nanotoxicology: Limitations and Challenges
- Risk assessment for nanotechnology: the interface between the old and new concepts in regulatory toxicology
- Redox sensitive nano platforms for Drug & gene delivery

DEMONSTRATIONS

Transmission Electron Microscopy (TEM)
Scanning Electron Microscopy (SEM)
Dynamic Light Scattering (DLS)

- Electrochemical Work Station
- High Performance Liquid Chromatography (HPLC)
- Flow cytometer
- Confocal microscopy
- Spray dryer
- Atomic Force Microscopy (AFM)
- Fluorescence Spectroscopy and Bio-layer interferometry (BLI)
- Circular Dichroism (CD)
- Cytotoxicity Assay and Histopathological assay
- Detection of reactive oxygen species
- TUNEL assay
- Quantification of Pesticide Loading

CONTACT

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VENUE

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