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SPECIAL DRIVE WALK-IN-INTERVIEW FOR Ph.D. - August 2023 SESSION FOR RESERVED CANDIDATES

Institute of Nano Science and Technology (INST), Mohali will conduct **Walk-in-Interview** on the following dates for prospective candidates for admission into its Ph. D. Program for the session beginning in August 2023.

Dates of interview:

- 27th June 2023 for [Energy and Environment Unit](#)

Reporting time: 09:00 am

Venue: Institute of Nano Science and Technology, Sector 81, Mohali 140306, Punjab (near IISER Mohali)

Number of vacancies: OBC-NCL (4), SC/ST (3)

Students with an independent source of fellowship, for example CSIR/UGC-JRF, are eligible to attend the Walk-in-Interview. Selected students will be enrolled in the Ph. D. program of Indian Institute of Science Education and Research (IISER), Mohali and the Ph. D. degree will be awarded by IISER, Mohali.

If you have any queries, email phd admission coordinator@inst.ac.in

The major ongoing research areas at INST are given at the end of this document.

a) ELIGIBILITY

- M. Sc. or M. Pharm. or M. Tech. in Basic or Applied Sciences, Engineering or related areas. Students who have appeared for the final year/semester examinations are also eligible, provided that the degree will be granted by the time of joining.
- Must have qualified an independent source fellowship like, CSIR/UGC-JRF, ICMR-JRF, DBT-JRF, or any other equivalent fellowships.
- Age limit: As per the guidelines of CSIR-UGC and DST.
- Candidates belonging to reserved category students (SC/ST/OBC-NCL) are eligible to apply.

b) SELECTION PROCEDURE

- Interested candidates are requested to **submit an online synopsis** to express their interest in attending the interview: <https://forms.gle/pvEF5nWRLXdkLKVu9>
- Candidates should report by **9 am at Institute of Nano Science and Technology, Sector 81, Mohali**
- All **original documents** in support of date of birth, educational qualifications, fellowship (UGC/CSIR-JRF, DBT-JRF, ICMR-JRF, etc.), reservation (SC/ST/OBC-NCL), research experience, publications etc. should be produced at the time of interview for verification.
- Candidates should also bring **two passport size photographs** and **one set of photocopy** of the above documents.
- No TA/DA will be paid for attending the interview.
- After the interview, the list of candidates selected for Ph. D. will be uploaded on INST website and the candidates will be intimated by email.
- Selection of students shall be done as per the provisions of The Central Educational Institutions (Reservation in Admission) Act, 2006 and amendments made thereto.
- The candidates are advised to visit INST website frequently to track the latest developments.

c) APPLICATION FEES

- **Rs.590/-** for OBC-NCL candidates, and **Rs.295/-** for SC,/ST candidates.
- Candidates will be required to remit the application fees online on the date of interview.

Energy & Environment

Inorganic & Materials Chemistry

- Electrochemistry (fuel cells, batteries & supercapacitors)
- Energy storage & conversion
- Framework materials (COF & MOF)
- Photocatalysis (water splitting & CO₂ reduction)
- Solar cells (perovskites, quantum dots & dye sensitized solar cells)
- Solid state chemistry
- X-ray scattering

Organic & Polymer Chemistry

- Biomaterials & drug delivery
- Chemosensors
- Flexible optoelectronics
- Luminescent materials
- Catalysis (organic transformations, photocatalysis, biomass conversion)
- Nanomotors & micropumps
- Synthetic methodology
- Small molecule & polymer synthesis
- Stimuli-responsive supramolecular materials

Spectroscopy & Physical Chemistry

- Biosensing
- Device fabrication
- Luminescence spectroscopy
- Nanophotonics
- Single molecule spectroscopy
- Ultrafast spectroscopy

Environmental Chemistry

- CO₂ sequestration & N₂ fixation
- Microfluidics based sensing of pollutants
- Sensing
- Waste management
- Water & air purification

Further details are available at www.inst.ac.in