

Indian Institute of Technology Delhi
Hauz Khas, New Delhi – 110016

ADVERTISEMENT NO. IITD/2021/SIRE/PDF/01

ADVERTISEMENT FOR THE POSITIONS OF POST DOCTORAL FELLOWS

IIT Delhi invites applications from qualified Indian Nationals, Persons of Indian Origin (PIOs) and Overseas Citizens of India (OCIs) for the Post-Doctoral Fellows (PDF) in the Physics Department in the specialization mentioned. The appointment will be made exclusively for research purposes and can be for a maximum period of three years.

Qualified persons include:

- a) Institute specifically encourages applicants from SC/ST/OBC category as well as persons with disability to apply for these positions.
- b) Maximum age is 32 years for male and 35 years for female candidates (to be relaxed by 5 years in case of persons with physical disability, SC and ST and 3 years in case of OBC-NCL).
- c) Number of posts - Two

Consolidated amount of Fellowship to Post-Doctoral Fellows (PDF):

The consolidated Fellowship amount is Rs. 60,000/- per month. House Rent Allowance (HRA), in lieu of on-campus housing, will be @ 24% of the fellowship amount.

SPECIALISATION:

1. **Specialization:** Semiconductor materials, growth and Characterization of 2-Dimensional materials (Transition Metal Di-Chalcogenides, TMDC)/ Spintronics/ LEDs/ photovoltaics, Device fabrication and characterization.

MINIMUM QUALIFICATIONS AND EXPERIENCE:

Essential Qualifications:

1. M.Sc. and Ph.D. in Physics/Materials Science/Electrical Engineering from a recognized University/Institute, with First division or equivalent in the last two degrees PLUS a minimum of three first author papers in standard international journals. The papers should be in the area of research relevant to the Project.

Desirable:

1. Expertise in the area of Solid State Physics/Materials Science/Electrical Engineering.
2. Five years hands-on experience in the handling, maintenance and operation of UHV systems.
3. The candidates having experience in working with MBE system will be preferred.
4. Research work done in the area of semiconductor materials/2D TMDCs/ Spintronics/ LEDs/ photovoltaics.
5. The candidate shall be willing to work in Sonapat Campus of IIT Delhi.

NOTES:

- The minimum requirement of qualifications and/or experience may be relaxed in respect of exceptional candidates.
- Mere fulfilment of the required minimum qualifications and experience does not entitle a candidate to be called for interview/discussion.
- The Institute reserves the right to fill or not to fill the posts advertised.
- The candidates called for presentation/discussion will be paid AC2-Tier fare by Train/Economy Class by Air or actual expenditure and AC Taxi by road (from Airport/Railway Station/ISBT and back) fare from their place of residence/work and back by the shortest route within India, subject to production of tickets/receipts.

ACCOMMODATION: Not eligible for residential accommodation on the Campus.

ABOUT THE CAMPUS: Extending into an area of 320 acres, the campus is imaginatively laid out with a picturesque landscape with clean and wide roads. The campus provides all essential amenities for community living including Staff Club, Hospital, Shopping Centre, Banks, ATMs, Post Office, Community Centre, etc.

It is a requirement that candidates visit the IIT Delhi website (<https://recruit.iitd.ac.in>), and submit the completed application for appointment against the above position. The website also contains useful information on various aspects of working and living at IIT Delhi and on the recruitment process. As a precaution, after submitting the application through the website, please retain a copy of the application with you. Candidates employed with Government/Semi-Government Organizations or with Autonomous Bodies must submit a printed version through proper channel at the address given below.

Only in those cases where Internet access is not available, an application form may be obtained from the Deputy Registrar (E-I) by sending a self-addressed envelope (26cm x 11cm) to the address given below. The completed application may be sent by postal mail to the address given below.

The last date for submission of applications is 14th March, 2021.

Contact Address:

**Deputy Registrar (E-I)
IIT Delhi, Hauz Khas,
New Delhi-110016 (INDIA)
Telephone: +91-11-26591716, Fax: +91-11-26597216
E-mail: ar_e1@admin.iitd.ac.in**