

इंडियन इंस्टीट्यूट ऑफ टेक्नोलॉजी दिल्ली  
हौज खास, नई दिल्ली -110016  
(औद्योगिक अनुसंधान एवं विकास इकाई)  
INDIAN INSTITUTE OF TECHNOLOGY DELHI  
Hauz Khas, New Delhi-110016  
(Industrial Research & Development Unit)

No. IITD/IRD/RP04526G/ 217105

Advertisement No.: IITD/IRD/239/2023

Dated: 28/11/2023

Applications from Indian nationals are invited for project appointment under the following project. Appointment shall be on contractual basis with consolidated pay, renewable yearly or upto the duration of the project, whichever is earlier. निम्नलिखित परियोजना के तहत भारतीय नागरिकों से आवेदन आमंत्रित किए जाते हैं। अपॉइंटमेंट, अनुबंधित आधार पर समेकित वेतन, नवीकरणीय वार्षिक या परियोजना की अवधि तक, जो भी पहले हो, के साथ होगा।

**Project Description:** Integrated photonics platforms play an instrumental role in developing scalable, robust, compact, stable and tunable quantum devices for various quantum information tasks. The project deals with building quantum sources of light using lithium niobate on insulator (LNOI), based on spontaneous parametric down conversion. The work involves designing and fabricating nanostructures on LNOI. The fabricated optical chips will then be characterized for both classical and quantum features.

Title of the Project	Integrated quantum light sources using LNOI (RP04526G)	
Funding Agency	DRDO, Ministry of Defence, New Delhi	
Name of the Project Investigator	Prof. (Ms.) Jasleen Lugani [email ID: jasleen@sense.iitd.ac.in]	
Deptt./Centre	Centre for Sensors, Instrumentation and Cyber Physical Systems Engineering	
Duration of the Project	Upto: 25/06/2026	
Post (s)	Consolidated fellowship / Pay-slab	Qualifications
Sr. Project Scientist (01)	Rs. 56,000-60,000-64,000/ p.m. plus HRA @ 24%	Ph.D. in Physics / Photonics / Quantum Optics with a good knowledge of experimental optics/nanofabrication techniques. Desirable: Hands on experience in design, fabrication and characterization of nanostructures. In addition, sound knowledge of modelling and simulation packages such as lumerical for design of naophotonic/plasmonic devices and processes, and basic programming skills in MATLAB/python/C+ will be preferred.

The candidates who are interested to apply for the above post should download **Form No. IRD/REC-4** from the IRD Website (<http://ird.iitd.ac.in/rec>) of IIT Delhi and submit the duly filled form with complete information regarding educational qualifications indicating percentage of marks/division, details of work experience etc. **by e-mail with advertisement No. on the subject line to Prof. (Ms.) Jasleen Lugani at email id: jasleen@sense.iitd.ac.in**

IIT Delhi reserves the right to fix higher criteria for short-listing of eligible candidates from those satisfying advertised qualification and requirement of the project post and their name will be displayed on web link (<http://ird.iitd.ac.in/shortlisted>) alongwith the online interview details. Only short-listed candidates will be informed for online interview. In case any clarification is required on eligibility regarding the above post, the candidate may contact Prof. (Ms.) Jasleen Lugani at email id: [jasleen@sense.iitd.ac.in](mailto:jasleen@sense.iitd.ac.in) 5% relaxation of marks may be granted to the SC/ST Candidates. In case of selection of a retired/superannuated government employee, his/her salary will be fixed as per prevailing IRD norms. अनुसूचित जाति / अनुसूचित जनजाति के उम्मीदवारों को अंकों की 5% छूट दी जा सकती है। एक सेवानिवृत्त सरकारी कर्मचारी के चयन के मामले में उसका वेतन वर्तमान आईआरडी मानदंडों के अनुसार तय किया जाएगा। **The last date for submitting the completed applications by email is 11/12/2023 by 5.00 p.m.**

सहायक कुलसचिव, आईआरडी

**वितरण**

- Head of the Deptt./Centres/Units : It is requested that the contents of the Above Advt. be brought to the notice of the staff working in your Deptt./Centre/Unit
- Webmaster, IRD : To put advertisement at IITD website.
- Notice Boards
- Advertisement file
- Prof. (Ms.) Jasleen Lugani, PI, Centre for Sensors, Instrumentation and Cyber Physical Systems Engg.
- Copy to Chairperson, DRC/CRC