

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/RP04411G/ 53286

Dated: 09/05/2023

Advertisement No.: IITD/IRD/102/2023

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।

The candidate would be working under Prof. Krishna Balasubramanian and a group of faculty members towards the development of SNSPD. The candidate will be required to lead the project coordinating with multiple faculty members, junior research fellows and project staff members. Numerical analysis using any common programming software, nanoscale device fabrication, low temperature electro-optic characterization will be a major part of the research work.

Title of the Project	Photon Number Resolved Superconducting Single Photon Detectors (PNR-SNSDP) (RP04411G)	
Funding Agency	DRDO, Ministry of Defence	
Name of the Project Investigator	Prof. Krishna B Balasubramanian [email ID: bkrishna@mse.iitd.ac.in]	
Deptt./Centre	Department of Material Science & Engineering (DMSE)	
Duration of the Project	Upto: 15/12/2026	
Post (s)	Consolidated fellowship / Pay-slab	Qualifications
Principal Project Scientist (1)	Rs.56,000-60,000-64,000-69,000-74,000-79,000/- p.m. plus HRA @ 24%	Ph.D. or 6 years of research experience after post graduation with first class in the last graduating degree. Ph.D. in Physics/Material science/Electronics/nanotechnology from a reputed institute in India. Experience in working with superconductivity and superconducting materials is a requirement. Knowledge of nanoscale device fabrication, and strong command in one of the programming languages such as python/matlab will be preferred.

The post may be downgraded as per discretion of the Selection Committee if none of the candidate is found suitable for the post.

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. Krishna B Balasubramanian at email id: bkrishna@mse.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. Krishna B Balasubramanian at email id: bkrishna@mse.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 e-mail is 23/05/2023 by 05.00p.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. Krishna B Balasubramanian, PI, Department of Material Science & Engineering
- Copy to Chairperson, DRC/CRC