

**Indian Institute of Technology Ropar**

Rupnagar, Punjab – 140 001, India,

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**Recruitment of one Junior Research Fellow (JRF) in the cluster project under the National Mission on Quantum Enabled Science and Technology (DST), Govt. of India**

*Ref. No.* **DST/ICPS/QuST/Theme-2/2019/General**

The Laboratory for Nano-scale Optics and Meta-materials ([www.iitrpr.ac.in/LaNOM](http://www.iitrpr.ac.in/LaNOM)), Department of Physics, IIT Ropar is interested to hire two Junior Research Fellows (JRF) to work in the cluster project for a duration of three years under the National Mission on Quantum Enabled Science and Technology, Department of Science and Technology (DST), Govt. of India.

Project title: Nanophotonic control on the emission properties of color centers in nanodiamonds for quantum optical applications

The project involves the experimental studies of the spontaneous emission from nitrogen-vacancy centers (NV), modified using nanophotonics structures. The JRF will design and build state-of-the-art optical experiments to measure the emission in both frequency and time domain. We are also interested to study the generation and characterization of single photon emission from NV centers at suitable conditions.

**PS:** Since the project is a part of a cluster project, the JRF’s would have the opportunity to interact and collaborate with many research groups across India. The selected JRF candidates may be permitted to register for the PhD program as per the existing institute rules.

1. **Fellowship, HRA, and Contingences:** As per DST rules
2. **Who can apply?**
   1. We expect you to have a master degree in Physics or equivalent or M.Tech in Photonics related area with minimum 60% mark along with a good academic grades throughout, and strong commitment and motivation to pursue research in the subject area.
   2. The candidates must have a valid CSIR-UGC (NET or JRF) or a valid GATE score in addition to the qualification mentioned in point ’a’

**General Information**

1. The position is temporary which will be renewed every year subject to the satisfactory performance.

2.Short-listed candidates will be called for interview. No TA/DA will be given to candidates for attending the interview.

3. Only shortlisted candidates will be communicated to appear in the interview by email and no other communication in this regard will be entertained.

4. Reservation as per Govt. of India rules.

**How to apply?**

Please send the filled application form (in the attached format) with copy of educational qualifications, date of birth certificate, and any experience certificate either by email as a single pdf file to ([rvnair@iitrpr.ac.in](mailto:rvnair@iitrpr.ac.in)) or by post directly to the undersigned. **Last date for Application: 14th March, 2022**

**Dr. Rajesh V. Nair**

Associate Professor

Department of Physics, Indian Institute of Technology (IIT) Ropar

Nangal Road, Rupnagar, Punjab 140 001

[**www.iitrpr.ac.in/LaNOM**](http://www.iitrpr.ac.in/LaNOM)

**INDIAN INSTITUTE OF TECHNOLOGY ROPAR**

**Department of PHYSICS**

**APPLICATION FORM**

**Call for the recruitment of one JRF in the cluster project under the National Mission on Quantum Enabled Science and Technology, DST, GoI.**

**Ref. No. DST/ICPS/QuST/Theme-2/2019/General**

**Personal Details**

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Full Name**  **(In Capital)** |  | | | | | | **Affix Recent Passport Size Photo** |
| **Date of Birth**  **(DD/MM/YY)** |  | | | **Gender (Male/Female)** | |  |
| **Marital Status**  **(Married/Unmarried)** |  | **Category** |  | **Nationality** | |  |
| **Address for Communication** | | | | **Permanent Address** | | | |
| **Mobile/Phone no.** |  | | | **E-mail** |  | | |

**Education Background (From Matriculation Onward)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **S. No.** | **Degree** | **Board / University** | **Regular/ Part time** | **Year** | **Division** | **% Marks /CGPA** |
|  |  |  |  |  |  |  |

**Qualifying Examination (GATE/CSIR/UGC/NET/Others)**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **S. No.** | **Qualifying Examination** | **Branch** | **Year** | **Valid up to** | **Percentile** | **All India Rank** | **Any other information** |
|  |  |  |  |  |  |  |  |

**Professional Experience (if any)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S. No.** | **Designation** | **Name of Organization** | **Period** | | **Nature of Work** |
| **From** | **To** |
|  |  |  |  |  |  |

**Research Publication (if any)**

**Awards, patents, prizes etc (if any)**

**Any other Relevant Information which is not covered above**

**DECLARATION**

**I hereby declare that I have carefully read the instructions and particulars supplied to me and that the entries made in this application form are correct to the best of my knowledge and belief. If selected, I promise to abide by the rules and discipline of the Institute.**

**I note that the decision of the Institute is final in regard to selection. The Institute shall have the right to expel me from the Institute at any time after my selection, provided it is found that I was admitted on false particulars furnished by me or my antecedents prove that my continuance in the Institute is not desirable. I agree that I shall abide by the decision of the Institute, which shall be final.**

**Place: …………**

**Date: ………… Signature of Applicant**