



**NATIONAL INSTITUTE OF TECHNOLOGY, ROURKELA – 769 008 (ODISHA)  
SPONSORED RESEARCH, INDUSTRIAL CONSULTANCY & CONTINUING EDUCATION**

Advt. No.: NITR/SR/18/PH-063/2019/369

Date: 24.04.2019

Applications are invited on prescribed format for the following assignment in a purely time bound research project undertaken in the Department of Physics and Astronomy (PH) of the Institute.

1.	Name of the Temporary Post	Junior Research Fellow (JRF) No. of positions - 01
2.	Name of the Research Project	Fabrication of ultrathin $\text{MoTe}_2/\text{MoS}_2$ heterostructure based Infrared detectors by chemical vapour deposition technique
3.	Name of the Sponsoring Agency	DRDO
4.	Tenure of the Project & Amount sanctioned for the post	25.02.2019 to 24.02.2022 Rs. 9.36 lakhs
5.	Tenure of the Assignment	03 years
6.	Job Description	Research work on synthesis and characterizations of materials (thin films and nanostructures) for IR detectors.
7.	Consolidated monthly compensation / Fellowship	Rs. 25,000/- per month for 1 <sup>st</sup> and 2 <sup>nd</sup> year and Rs 28,000/- per month for 3 <sup>rd</sup> year
8.	Essential Qualifications and experience	First class throughout the career with minimum of 65% of marks in M. Sc./M.Tech. in Physics / Materials Science.
9.	Desirable Qualifications/ Experiences	Experience in synthesis and characterizations of materials
10.	Trade Test	<del>Required</del> /Not required.
11.	Project Code	SR/18/PH/063
12.	Accommodation	Bachelor accommodation in the hostel will be provided and Campus accommodation may be provided to married students subject to availability. ( <b>campus stay is compulsory</b> )

For technical information on the project, the candidate may contact the Principal Investigator at the following address **with an updated Curriculum Vita**:

Name : **Prof. Jyoti Prakash Kar**  
Address : **Department of Physics and Astronomy (PH)**  
National Institute of Technology, Rourkela,  
Odisha 769 008.  
Telephone No : 0661-246 2732 (O)  
Mob : 94385 32157  
E-mail : [karjp@nitrkl.ac.in](mailto:karjp@nitrkl.ac.in)

Eligible candidates may apply in the prescribed format (available in the Institute Website) affixed with coloured photographs to be submitted in duplicate along with photo copies of relevant certificates, grade/mark sheets, publications etc., to **Asst. Registrar, SRICCE, National Institute of Technology, Rourkela-769 008 on or before 10.05.2019**. The cover should be super- scribed clearly the post applied for & Name of the Project with code.

Mere possession of minimum qualification does not guarantee invitation to the interview. Candidates will be short listed based on merit and need of the project.

**Sd/-**  
**Asst. Registrar (SRICCE)**

Copy to:

1. All Heads of the Departments, NIT, Rourkela for publication on Departmental Notice Boards.
2. Prof. Jyoti Prakash Kar, Principal Investigator with a request to give wide publicity to advertisement.
3. Head of the Department, PH.
4. Project file.