



# NATIONAL INSTITUTE OF TECHNOLOGY ROURKELA

[An Institute of National Importance under Ministry of Education, Govt. of India]

Sector 1, Rourkela, Sundergarh Dist., Odisha 769 008

SPONSORED RESEARCH INDUSTRIAL CONSULTANCY CONTINUING EDUCATION

NITR / SR / 2023 / Advt.- 23EC062 / L / 090

dt.18/03/2024 Ref: FTS 2945AA **SR-R03**

## Advertisement for Recruitment of Project Position

Candidates who fulfill the below mentioned criteria may submit the application form before the last date. Engagement will be purely on temporary / contractual basis and co-terminus with the completion of the project. Candidates are advised to go through the advertisement details carefully before applying.

1.	Title of the Project:	Investigation of narrow bandgap two-dimensional materials for the design of room temperature, broadband, mid and long-wave-infrared integrated photodetectors.		
2.	Project Code with Duration (Closing Date):	SR/23/EC/062	25/02/2027	
3.	Funding Agency Details:	SERB	-	
4.	Department / Centre:	Dept. of Electronics and Communication Engg.		
5.	Name of the PI with details:	Prof. Sumit Saha		
		sahas @nitrkl.ac.in	sumitahas @ gmail.com	
		0661-246 2452	9955160232	-
6.	Details of the Post(s):	7. Educational Qualification & Working Knowledge		
Junior Research Fellow (JRF)		<b>Essential Qualification (s):</b>		
[Name of the Post(s)]		M.E./ M.Tech./ M.Tech [R] in Electronics/Electronics and Communication/Electrical and Electronics/Computer Science Engineering or similar with specialization in Electronics /Optical Communication /Microelectronics /Nanotechnology /Photonics /Optoelectronics / VLSI or similar with minimum 60% marks or 6.5/10 CGPA at both B.Tech./B.E. and M.E./M.Tech. levels. (Or) B.E./B.Tech. in Electronics/Electronics and Communication/Electrical and Electronics/ Electrical Engineering or similar with minimum 65% marks or 7.0/10 CGPA and Valid GATE score (or) M.Sc. (with GATE/NET/GPAT) in Electronics or similar with 65% marks or 7.0/10 CGPA.		
01 (One)		<b>Desirable Qualification:</b>		
03 Year(s), 00 Month(s)		1. Strong knowledge in Semiconductor Material and Device physics.		
[No. of Post(s)]		2. Understanding of Optoelectronic devices such as Photodetectors, Lasers, Solar cell etc.		
[Tenure of Post]		3. Previous experience on device modeling using MATLAB/TCAD and material modeling/simulation using DFT are desirable, but not mandatory.		
Year 1 & 2		<b>Experience / Software / Skillset:</b>		
INR 37,000.00 /- per month (+) HRA @ NA % (if applicable)		-NA-		
Year 3		<b>Job Description:</b>		
INR 42,000.00 /- per month (+) HRA @ NA % (if applicable)		1. Conduct research on the design, modeling, and analysis of 2D materials and their heterostructure-based photodetectors. 2. Prepare project reports. Scope to enroll in Ph.D. in the department of Electronics and Communication Engineering (Subject to fulfillment of all Institute/ Department eligibility criteria).		

Notified Later Interview details: - - - Department of Electronics and Communication Engg.

**Application link for eligible candidate(s):** [NIT Rourkela Homepage](#) ⇒ [FACULTY & STAFF](#) ⇒ [SRICCE](#) ⇒ [Career](#) ⇒ [Notices](#)

The candidate(s) are required to send the complete filled and signed application (soft copy) with documents regarding educational qualification indicating percentage of marks / division (mark-sheets and / or certificates), research papers (if any), work experience certificate (if any) etc., This may be built as a single PDF file and sent by email with "Advertisement No." on the subject link to the above mentioned e-mail IDs. NO hard copies of application(s) are required to be sent to the Institute.

**Last date for submitting the Application: 09/04/2024**

The period of experience in a discipline / area of work, wherever prescribed, shall be counted after the date of acquiring the minimum prescribed educational qualifications for that position. 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. Selection / Joining will be cancelled in case of any suppression of information / document submitted.

NIT Rourkela reserves the right to fix higher criteria for short-listing of eligible candidates from those satisfying advertised qualification and requirement of the project post. 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 in the above mentioned details.

### Age Guideline:

The upper age limit for applying for the award of project position shall be 28 years, which is relaxed up to 5 years in the case of candidates belonging to Schedule Castes / Schedule Tribes / PWD and Female applicants whereas 3 years in the case of OBCs (Non-creamy layer candidates). Upper age limit shall be reckoned as on the last date of receipt of applications.

Any other terms & conditions governed as per guidelines issued by the funding agency for the engagement of above position as amended from time to time shall be in force towards this temporary recruitment.

**Sd/-  
Asst. / Dy. / Jt. Registrar (SR)**

### Copy to:

- PI : Prof. Sumit Saha , Dept. of EC
- Chairman, DRC, Dept. of EC
- Head of the Department / Centres / Units
- Dealing Seat (SR – Project Recruitment)
- Advertisement File

➔ It is requested that the contents of the above advertisement be brought to the notice of the staff(s) / student(s) working in your Deptt. / Centre / Unit.

➔ To publish advertisement at NITR website.