



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 / 2026 / Advt.- 25CR047 / L / ANP002

dt.23-Sep-2026 Ref: FTS 260910-9510

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:	Consortium of Technologies for Sustainable Agriculture, Health, Energy and Environment.	
2.	Project Code, Dept. with Closing Date:	SR-25-CR-047	13-Oct-2030 ANRF-PAIR
3.	Funding Agency Details:	4211- ANRF [3499 0201 0052 015]	-
4.	PI details:	Prof. Swadesh Kumar Pratihar 9437391103	skpratihar@nitrl.ac.in, 0661-246 2206 - @ -NA-
5.	Co-PI details:	Prof. Himanshu Bhushan Sahu 9437245625	hbsahu@nitrl.ac.in, 0661-246 2606 - @ -NA-
6.	Details of the Post(s):		
Junior Research Fellow (JRF) [Name of the Post(s)]		7. Educational Qualification & Working Knowledge	
10 No(s) [No. of Post(s)]	04 Year(s), 00 Month(s) (Tenure of Post)	Essential Qualification (s):	
Year 1 & 2 INR 37,000.00 /- per month (+) HRA @ NA % (if applicable)		Details in Annexure - I	
Year 3 onwards (till complete of project) INR 42,000.00 /- per month (+) HRA @ NA % (if applicable)		Experience / Software / Skillset & Desirable Qualification:	
Job Description:		Details in Annexure - I	
Details in Annexure - I			
Walk-in (offline)	Interview details:	05-Oct-2026 11:00 AM	Department as mentioned in Annexure-I
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: 01-Oct-2026			
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 30 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.			
1. Kindly refer Annexure - I for details.			
2. PA (project associate)- INR 30,000/- will only be considered if JRF is not available.			
Sd/- Asst. / Dy. / Jt. Registrar (SR)			
Copy to:			
➤ PI & CO- PI: Prof. Swadesh Kumar Pratihar, CR & Prof. Himanshu Bhushan Sahu MN ➤ Chairman, DRC, Dept. of CR			
➤ Head of the Department / Centres / Units (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.)			
➤ Dealing Seat (SR – Project Recruitment) ➤ Advertisement File ➔ To publish advertisement at NITR website.			

*** PA (Project Associate) will only be considered in case JRF is not found suitable.**

Essential Qualification for all the posts is as follows:

Junior Research Fellow (JRF)

Post Graduate degree in basic science OR Graduate / Post Graduate Degree in Professional Course selected through a process described through any one of the following:

- Scholars who are selected through National Eligibility Tests – CSIR-UGC NET including Lectureship (Assistant Professorship) and GATE.
- The selection process through National Eligibility Examinations conducted by Central Government Departments and their Agencies and Institutions such as DBT, DST, DAE, DOS, DRDO, MoE, ICAR, ICMR, IIT, IISc, IISER, NISER, etc.

*** Project Associate – I (PA)**

Four years Bachelor's Degree in Natural or Agriculture Science / Master's Degree in Natural or Agriculture Sciences / BVSc / B. Pharm or Bachelor's Degree in Engineering or Technology or Medicine or from a recognized University or equivalent.

Desirable Qualifications are mentioned in the below table against each posts.

Project #	JRF/ PA #	Project Title	Qualification	Investigators Contact
H3C	1	Self-powered wearable devices and drug delivery systems with biosensors for continuous healthcare monitoring	Desirable Qualifications: MSc in any biological sciences with NET/GATE B.Tech/M.Tech in Biotechnology/Biomedical Engineering/Electrical Engineering (Biology in 12 th). A GATE qualification is mandatory for B.Tech applicants.	Bismita Nayak nayakb@nitrkl.ac.in
E1.1	1	LSCF/BSCF perovskites and Gd-containing pyrochlore ceramics for electrocatalysts	BE/B.Tech/M.Sc. (with GATE) with a CGPA of 7.0 or 65% marks OR M.Tech in Ceramic Engg. /Metallurgical and Materials Engg./Chemical Engg. /Mechanical Engg. /Biomedical Engg. /Nanotechnology /Biotechnology OR MSc (with GATE) in Physics /Chemistry /Materials Science /Nano Science with at least 6.5 CGPA or 60% marks.	Swadesh K Pratihari skpratihari@nitrkl.ac.in
E2.1	1	Disordered Rocksalt-type (DRX) cathodes for Li-ion batteries	BE/B.Tech/M.Sc. (with GATE) with a CGPA of 7.0 or 65% marks OR M.Tech in Ceramic Engg. /Metallurgical and Materials Engg./Chemical Engg. /Mechanical Engg. /Biomedical Engg. /Nanotechnology /Biotechnology OR MSc (with GATE) in Physics /Chemistry /Materials Science /Nano Science with at least 6.5 CGPA or 60% marks.	Partha Saha sahap@nitrkl.ac.in

E2.4	1	PDC hybrids for sodium ion battery anodes	BE/B.Tech/M.Sc. (with GATE) with a CGPA of 7.0 or 65% marks OR M.Tech in Ceramic Engg. /Metallurgical and Materials Engg./Chemical Engg. /Mechanical Engg. /Biomedical Engg. /Nanotechnology /Biotechnology OR MSc (with GATE) in Physics /Chemistry /Materials Science /Nano Science with at least 6.5 CGPA or 60% marks.	Shantanu K Behera beherash@nitrrkl.ac.in
E4.1	1	Grid Synchronization, energy management and protection strategies for microgrid:	MTech/ME/M.S. in Electrical / Control Engineering/ Energy Engg. or equivalent, relevant to the area of research OR BTech/BE in Electrical/ Control Engineering or equivalent Engineering or equivalent, and having a CGPA/CPI score of 7.00 (out of 10.0) and above with a valid GATE score can apply for admission to the PhD programme. Power Systems, Microgrid Control, Operation, and Cybersecurity, Power Electronics and Drives, Active Power Filter, Renewable Energy & EV, AI/ML-based Control Applications, Battery, Hydrogen Storage, Fuel Cells, Supercapacitors.	Pravat Kumar Ray rayp@nitrrkl.ac.in
E4.2	1	Green Hydrogen Integration and Microgrid Stability	MTech/ME/M.S. in Electrical / Control Engineering/ Energy Engg. or equivalent, relevant to the area of research OR BTech/BE in Electrical/ Control Engineering or equivalent Engineering or equivalent, and having a CGPA/CPI score of 7.00 (out of 10.0) and above with a valid GATE score can apply for admission to the PhD programme. Power Systems, Microgrid Control, Operation, and Cybersecurity, Power Electronics and Drives, Active Power Filter, Renewable Energy & EV, AI/ML-based Control Applications, Battery, Hydrogen Storage, Fuel Cells, Supercapacitors.	Monalisa Pattnaik pattnaikm@nitrrkl.ac.in
E4.4	1	Grid-Interactive AC-DC Microgrid System Analysis and AI/ML-based Energy Forecasting	MTech/ME/M.S. in Electrical / Control Engineering/ Energy Engg. or equivalent, relevant to the area of research OR BTech/BE in Electrical/ Control Engineering or equivalent Engineering or equivalent, and having a CGPA/CPI score of 7.00 (out of 10.0) and above with a valid GATE score can apply for admission to the PhD programme. Power Systems, Microgrid Control, Operation, and Cybersecurity, Power Electronics and Drives, Active Power Filter, Renewable Energy & EV, AI/ML-based Control Applications, Battery, Hydrogen Storage, Fuel Cells, Supercapacitors.	Arnab Ghosh ghosha@nitrrkl.ac.in

E4.6	1	Renewable Energy Integrated Secure Network Control and Protection Strategies:	MTech/ME/M.S. in Electrical / Control Engineering/ Energy Engg. or equivalent, relevant to the area of research OR BTech/BE in Electrical/ Control Engineering or equivalent Engineering or equivalent, and having a CGPA/CPI score of 7.00 (out of 10.0) and above with a valid GATE score can apply for admission to the PhD programme. Power Systems, Microgrid Control, Operation, and Cybersecurity, Power Electronics and Drives, Active Power Filter, Renewable Energy & EV, AI/ML-based Control Applications, Battery, Hydrogen Storage, Fuel Cells, Supercapacitors.	Jatin Pradhan pradhanjk@nitrrkl.ac.in
N3.1	1	Environmentally Degradable Supramolecular Plastics for Sustainable Solutions	Desirable Qualifications: M.Sc. in Chemistry (or Industrial / Applied / Environmental / Polymer / Materials Chemistry) with 65% marks or 7.00 CGPA with a valid GATE/NET score	Bimalendu Adhikari adhikarib@nitrrkl.ac.in
N3.4	1	Development of Sustainable Geopolymer Concrete	Desirable Qualifications: B.Tech/B.E. in Civil Engineering with a minimum CGPA of 6.5 (60%)/1st class with valid GATE/NET score, and M.E./M.Tech in Structural Engineering/Construction Technology and Management/Construction Management/Construction Technology with a minimum CGPA of 6.5/Percentage 60% /1st class from a recognized Technological University Good Background in Concrete Technology with a valid GATE/NET Score	Subhajit Mondal mondalsubhajit@nitrrkl.ac.in

- Application / Inquiry may kindly be sent to the relevant Investigator as mentioned at the column (Investigators Contact) project wise.
- Qualification and other requirements are as per the ANRF notification attached.

Fellowship:

JRF – (1st and 2nd year) : ₹ 37,000 per month
(3rd to 5th year) : ₹ 42,000 per month

***PA – (1st to 5th year) : ₹ 30,000 per month**

- Shared accommodation shall be provided in the hostel
- Candidates appearing for their final examination are also eligible to apply. However, the qualifying degree result is required to be submitted by 30th October, 2026.
- Selected candidates are required to register for the Ph.D. programme.

ACTIVITY SCHEDULE

<i>Sl#</i>	<i>Event</i>	<i>Date</i>
1	Last date of submission of application by email	01 st October, 2026
2	Test / Interview (Venue – NIT Rourkela) (in-person)	05 th October, 2026 [11:00 AM]
3	Intimation of selection by email	by 12 th October, 2026
4	Date of Joining	on or before 30 th October, 2026

The candidates are advised to visit department webpage and contact respective investigators for further details