



# राष्ट्रीय प्रौद्योगिकी संस्थान अगर्तला

National Institute of Technology, Agartala  
Jirania, Tripura, India, Pin -799046

Advt. No.: F.NITA.11(42-ME) /DST-SERB-CRG/Project/JRF/2023-24

Dated: 08.07.2024

Recruitment of Junior Research Fellow (JRF) and Project Assistant for the research project funded by Science and Engineering Research Board (SERB), Department of Science & Technology (DST), Government of India, under the scheme Core Research Grant (CRG)

Applications are invited for the post of Junior Research Fellow (JRF) and Project Assistant under the sponsored research project. The details of the project and the post for recruitment are given below:

- Title of the Project** : Development analysis and feasibility study of aluminium alloy-air battery for powering electric vehicles
- Funding Agency** : Science and Engineering Research Board (SERB), Department of Science & Technology (DST), Government of India, under the scheme Core Research Grant (CRG)
- Project duration** : Initial appointment will be for one year, which is extendable up to the duration of the project (about 3 years) solely based on the performance.
- Principal Investigator** : **Dr. Ajay Biswas**  
Assistant Professor  
Mechanical Engineering Department  
NIT Agartala
- Monthly Emolument** : **For JRF: Consolidated amount of Rs.31,000/-** per month for first 02 years and Rs.35,000/- month for the third year.  
**For Project Assistant: Consolidated amount of Rs.20,000/-** per month up to the duration of the project (about 3 years) solely based on performance.
- Essential Qualifications** :
1. **For JRF: ME / M. Tech in Manufacturing Technology or relevant / Materials Science & Engineering / Power Electronics / Masters' degree in Physics** or other relevant subjects (with consistently good academic record and a minimum of 60% marks or an equivalent CGPA in the Master's degree or first division as defined by the awarding Institute/ University) from recognized Universities/Institutes, with CSIR/UGC-NET (Equivalent qualification/fellowship) or valid GATE score. Desirable: **knowledge / experience in chemical synthesis, electro physics, electrochemistry and fuel cell will be preferred.** Age limit: 28 years on the date of application, with relaxation to SC/ST/OBC candidates as per Government of India norms.
  2. **For Project Assistant: B.Sc. in Physics** or other relevant subjects / **Three years Diploma in Mechanical or relevant Engineering and Technology after 12<sup>th</sup> Science** with consistently good academic record and a minimum of 60% marks or an equivalent grade or first division as defined by the awarding Institute / University). Desirable: **knowledge / experience in chemical synthesis, electro physics, electrochemistry and fuel cell will be preferred.** Age limit: 28 years on the date of application, with relaxation to SC/ST/OBC candidates as per Government of India norms.

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## Description of responsibilities

JRF:

The primary role of the Junior Research Fellow (JRF) is to assist in research activities under the guidance of the Principal Investigator (PI) or the Co- Principal Investigator. The JRF has to assist the PI and Co-PI in all respect regarding execution and successful completion of the project in connection with planning, estimating of tools and equipments etc. procurement, installation, erection, commissioning, fabrication and setting up of experimental set up, experimentations, analysis, data collection, data analysis, finding outcomes, publications, conferences, seminars, all documentations of fund utilization viz. preparation of reports and returns etc. and all related works to be assigned time to time.

### Project Assistant:

The primary role of the **Project Assistant** is to assist the PI, Co-PI, and JRF in all respect regarding execution and successful completion of the project in connection with planning, estimating, tools and equipments etc. procurement, installation, erection, commissioning, fabrication and setting up of experimental set up, experimentations, data collection, conferences, seminars, all documentations of fund utilization viz. preparation of reports and returns etc. and all related works to be assigned time to time.

Date of Interview (Walk-in interview  
online / offline)

Date: 25.07.2024 (tentative)

Mode of interview: online / offline depending on the suitability.

### How to Apply

Interested candidates are requested to submit the attached application format duly filled in with detailed CV and scanned copy of all documents. All the attachments are to be converted into a single pdf file (size 10 MB max.) named <applicant's name> \_ <JRF/PA application for SERB > and send to **Dr. Ajay Biswas**, Assistant Professor, Mechanical Engineering Department, NIT Agartala, via e-mail: [ajaybiswasnita@gmail.com](mailto:ajaybiswasnita@gmail.com) with the subject line "JRF/PA application for SERB Project 2023" latest by **July 21, 2024**.

**Note:** CV should include details of academic grades starting from X standard onwards with details of the year of passing, university or institute, etc. and also work experience and nature of work if applicable. Complete details of CSIR/UGC-NET (Equivalent qualification/fellowship) or valid GATE score such as year of passing/validity, discipline, marks, All India Rank and number of candidates appeared should be mentioned in the CV (for JRF position). Incomplete applications will be rejected.

Only shortlisted candidates will be called for the interview (via **online / offline depending on the suitability**). Shortlisted candidates will be intimated by e-mail about the final date of interview. No TA/DA will be paid for appearing for the interview. Documents in support of educational qualifications, and experience certificates as applicable must be produced at the time of selection process.

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Barjala, Jirania, West Tripura, Pin:- 799046  
Tel. No. +91381 2346630/6629, Fax. No. +91381 2346360, Url:- [www.nita.ac.in](http://www.nita.ac.in)

## Terms and Conditions:

The position is purely on temporary basis and will be governed by the Administrative rules, conditions imposed by Research & Consultancy Cell, NIT Agartala.

1. Candidates before appearing for the interview shall ensure that they are eligible for the position they intend to apply.
2. **Interested candidate should send their filled application including photograph and signed scan copy of educational qualifications, research publications and a statement of interest on or before 21.07.2024.**
3. The application should be sent through e-mail at [ajaybiswasnita@gmail.com](mailto:ajaybiswasnita@gmail.com).
4. The project duration is 03 years. Initial appointment for the position will be for one year, which is extendable up to the duration of the project (about 3 years) solely based on performance.
5. No TA/DA is permissible for appearing in the interview and joining in case of selection. Institute reserves the right to cancel the process at any point of time without assigning any reason.
6. Candidate shall bring along with them the original degree(s)/certificate(s) and experience certificate(s) at the time of interview for verification.
7. Appointment will be temporary in nature and as per the Institute terms and conditions.
8. Only shortlisted candidates will be informed through email provided in the application form for interview, upon selection engagement letter will be sent through the email.
9. The applicant will be responsible for the authenticity of information, documents and photographs submitted.
10. The Institute reserves the right to cancel the recruitment without assigning any reason.
11. The candidate selected for the above position will have the option to register for PhD. program under the Department of Mechanical Engineering. National Institute of Technology Agartala. However, for admission to PhD program, the candidate must meet certain eligibility requirements as per the Ph.D. rules 2018 of NIT Agartala ([https://www.nita.ac.in/uploaded\\_files/Rules\\_PhD\\_2018.pdf](https://www.nita.ac.in/uploaded_files/Rules_PhD_2018.pdf)).
12. The temporary engagement can be terminated without assigning any reason.

Sd/

**Dean(R&C)  
NIT Agartala**

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National Institute of Technology, Agartala  
Jirania, Tripura, India, Pin -799046

## APPLICATION FORM

Recent passport  
size color  
photography  
affixed

Application for the post of .....

Advt. No.: .....

Dated:.....

- 1 Name of the Applicant :
- 2 Father's/Husband's Name :
- 3 Nationality :
- 4 Date of Birth :
- 5 Category (SC/ST/OBC/GEN/EWS) :
- 6 Gender (Male/Female) :
- 7 Marital Status :
- 8 NET Qualified (Yes/No) :
- 9 GATE Qualified (Yes/No) :
- 10 Title of the project undertaken in  
M.Tech /M.Sc./B.Tech :
- 11 Research Experience (If any) (Attached  
Certificate) :
- 12 Aadhar No. (attach copy of Aadhar  
Card) :
13. Present Address .....
- .....
- ..... Pin Code: .....
- E-mail ID: ..... Phone/Mobile No.: .....

14. Educational Qualification (Higher School onwards) (Attached Certificate) :

Exam Passed	Year of passing	Board/ University	Subjects	Percentage of marks

15. List of SCI Journal:

16. List of Scopus Journal:

17. List of Conference Paper:

18. Book/Book Chapter/Patent:

**UNDERTAKING**

I hereby declare that all the information furnished above is true, correct and complete to the best of my knowledge and belief.

Signature of the Candidate

Date: .....

Place: .....