



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

Advt. No.: NITR/SR/19/CR-011/2019/L/370

Date: 26.04.2019

Applications are invited on prescribed format for the following assignment in a purely time bound research project undertaken in the Department of Metallurgical and Materials Engineering of the Institute.

1.	Name of the temporary post & No.	Junior Research Fellow (JRF) – 01
2.	Name of the Research Project	Development of nano-structured Si-Void-C yolk/shell architecture for high-performance Li-ion battery anode.
3.	Name of the sponsoring Agency	DST Nanomission
4.	Tenure of the project	3 years (01.04.2019 to 31.03.2022)
5.	Tenure of the assignment	36 months or till the end of the project whichever is earlier. Extendable annually till completion of project, subject to satisfactory performance
6.	Job description (Give details)	The incumbent will be involved in developing Si-C based composite anode for Li-ion batteries. Knowledge in Physics, Chemistry, Electrochemistry & prior hands-on experience in battery, capacitor, fuel cell fabrication will be preferred.
7.	Consolidated monthly fellowship	i) Rs. 27,500/- for 1 st and 2 nd years. ii) Rs.30,800/- for 3 rd yr.
8.	Essential Qualification & Experience	Master's degree in Engineering (Ceramics, Metallurgy, Materials Science, Chemical, Mechanical) with minimum CGPA of 6.5/10.0 (or 60% aggregate) Bachelor's degree in Engineering (Ceramics, Metallurgy, Materials Science, Chemical, Mechanical) with a minimum CGPA of 8.0/10.0 (or 75% aggregate) with valid GATE score. Master's degree in Science (Chemistry/Physics only) with Minimum CGPA of 8.0/10.0 (or 75% aggregate) in the Master's degree, first division in Bachelor's degree, and valid GATE score or NET qualified. Qualification/experience for JRF position will be as per DST norms.
9.	Desirable Qualification/Experience	Qualification and experience same as above.
10.	Accommodation	Bachelor accommodation in the Institute will be provided and campus accommodation may be provided to married students subject to availability.

For technical information on the project, the candidate may contact the Principal Investigator at the following address:

Name : **Prof. Partha Saha, Assistant Professor**
Address : Department of Ceramic Engineering,
National Institute of Technology, Rourkela
Odisha 769 008.
Telephone No : +91-661-246- 2211 (Office)
E-mail : sahap@nitrkl.ac.in

Eligible persons may apply in the prescribed format (available in the Institute Website) affixed with colored 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 14.05.2019**. The cover should be super- scribed clearly the post applied for & Name of the Project.

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. Partha Saha, Principal Investigator with a request to give wide publicity to advertisement.
3. Head of the Department, CR.
4. Project file.