



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

Advt. No.: NITR/SR/2022/Advt.-19EE010/L/042, dt: 14.09.2022

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

1.	Name of the Temporary Post	Research Associate – 1 No.(Pr. Code: SR/19/EE/010)
2.	Name of the Research Project	Design, development and prototyping of state of the art Hybrid Energy Storage System (HESS) based high power high speed Electric Vehicle (EV) drive train for a Multi Utility Vehicle (MUV)
3.	Name of the Sponsoring Agency	SERB-DST (IMPRINT 2)
4.	Tenure of the Project	06-Months
5.	Tenure of the Assignment	06-Months or Completion of Project whichever is earlier.
6.	Job Description	Job Description: i) Development of High Power Bidirectional DC/DC Converter ii) Implementation of Control, Energy Management and Protection algorithms for high power Bidirectional Converters in C2000/DSP/ FPGA platforms iii) Implementation of Battery Management System Algorithms in C2000/DSP/ FPGA platforms iv) Assist the PI/Co-PIs in preparation of reports related to the research work v) Other works related to the project
7.	Consolidated monthly compensation / Fellowship	Rs. 47,000/- per month
8.	Essential Qualifications and experience	The applicants should hold a PhD degree in Electrical Engineering or having 3 years of research, teaching and design and development experience after Mtech/ME (Power Electronics/Drives/Control System/Industrial Electronics related specialization) with at least one paper in Science Citation Indexed (SCI) Journal. Those who have already submitted the Ph.D. thesis is also eligible to apply (<i>attach proof of submission of Ph.D. thesis</i>).
9.	Desirable Qualifications/ Experiences	Writing control algorithms in C2000/DSP/ FPGA for power converter control.
10.	Accommodation	Bachelor accommodation in the Institute may be provided subject to availability.

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

Name : Prof. Susovon Samanta
Address : Department of Electrical Engineering,
NIT Rourkela, Odisha 769 008.
Telephone No : 0661-246-2420, 94391 04535
E-mail : samantas@nitrkl.ac.in

Date and Time for **on-line** Interview: **18th October, 2022. (Time 10:30 A.M.)**
Place of Interview: **Department of Electrical Engineering, NIT Rourkela.**

Eligible candidates may apply for on-line interview on **10th October, 2022, 23:59 HRS.** The candidates are required to send the complete filled up application form (soft copy) to samantas@nitrkl.ac.in. The application form is available in the following link [http://nitrkl.ac.in/oldwebsite/Jobs_Tenders/5ProjectFellowships/Doc/JRF%20LS-PND-64\(2\).pdf](http://nitrkl.ac.in/oldwebsite/Jobs_Tenders/5ProjectFellowships/Doc/JRF%20LS-PND-64(2).pdf) which must be filled by candidates and also required to attach photocopies of all supporting documents, research papers (if any) etc.

Candidates will build a **single pdf** file and it is to be sent to Principal Investigator (samantas@nitrkl.ac.in) **on or before 10th October, 2022, 23:59 HRS.** The candidates are also required to produce relevant documents mentioned in the application form (such as original of all mark sheets and certificates, research papers (if any), experience certificate (if any) etc. during interview.)

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. S. Samanta, PI (**Project Code: SR/19/EE/010**) with a request to give wide publicity to advertisement.
- 3) Head of the Department, EE.
- 4) Project file.