



भारतीय प्रौद्योगिकी संस्थान गांधीनगर  
पालज, गांधीनगर, गुजरात 382 355

INDIAN INSTITUTE OF TECHNOLOGY GANDHINAGAR  
Palaj, Gandhinagar 382 355

IITGN

## Advertisement

**One Junior Research Fellow (JRF) /Project assistant position available for the project "*Design and Testing of Robust and Flexible 3D Printed Electrodes with Novel Porous Architecture Guided by Graph Theory and Molecular Simulations for High Energy Density Applications*" with Prof. Mithun Radhakrishna in the Chemical Engineering department**

Indian Institute of Technology Gandhinagar (IITGN) invites applications for a JRF position from motivated individuals interested in the project titled "Design and Testing of Robust and Flexible 3D Printed Electrodes with Novel Porous Architecture Guided by Graph Theory and Molecular Simulations for High Energy Density Applications". The applications are sought under the DST grant DST/TMD/MES/2k18/193. The total emoluments and detailed terms and conditions are as per DST rules and amount to maximum of Rs. 31,000 pm (consolidated). Applications are accepted through email from May 29, 2020 and would be accepted until June 20th 2020 (see the details on the application procedure below).

### Eligibility

#### Junior Research Fellow (JRF)

The applicant should have completed his/her Bachelors or Masters in Chemistry/Physics/ Chemical Engineering/ Materials Engineering/Mechanical Engineering or other allied fields with atleast 70% marks. Applicants with Bachelors or MSc degree require GATE/NET qualification for JRF position.

### Expectation

Applicants are expected to have a strong knowledge of Thermodynamics, Statistical Mechanics, Molecular Dynamics, Monte Carlo simulations and Polymer physics. A strong programming skill either C/C++/Fortran/Python is required. Knowledge of high performance computing systems and clusters is desired. Knowledge of Density Functional theory is a plus. The Junior Research Fellow/Project Assistant is expected to work on developing various simulation strategies to develop porous electrodes using molecular simulations and understand the effect of various electrolytes on the capacitance of the electrode.

### Application procedure

Candidates must send their applications via e-mail to Prof. Mithun Radhakrishna (mithunr@iitgn.ac.in) with **the subject line: JRF Application-Your Name**. It should include the current CV with list of publications (if any), and a one page summary of the candidate's research experience. Any queries may be directed to the same email id given above.