



# INDIAN INSTITUTE OF TECHNOLOGY BOMBAY POWAI, MUMBAI 400076.

**Advertisement No.: IRCC/EXT095/2021**

**Job Title**

Senior Research Fellow

**Job Reference Number**

50226071

**Application End Date**

07.07.2021

**Type of Employment**

Proj. Staff Contract

**No. of Position(s)**

1

**IITB Project Recruitment:**

Project title: Fractional-order modelling for optimum design and sizing of supercapacitor systems considering the memory effects associated with the

About the project: 1. Conducting experiments on different supercapacitors for characterizing their dynamics.

2. Analyzing the results in Matlab, PLECS or similar softwares.

3. Developing supercapacitor packs and power electronic interfaces.

**Essential Qualifications & Experience:**

M.Tech with CGPA above 7.5 and B Tech in Electrical Engineering selected through a process described through any one of the following:

a. Scholars who are selected through National Eligibility Tests - CSIR-UGC NET including lectureship (Assistant Professorship) and GATE.

b. The selection process through National level examinations conducted by Central Government Departments and their Agencies and Institutions such as DST, DBT, DAE, DOS, DRDO, MHRD, ICAR, ICMR, IIT, IISc, IISER etc.

with 2 years of research experience.

**Job Profile:**

1. Basic understanding of circuit analysis, control and power electronics.

2. Hardware experience is preferred.

**Pay Details:**

Consolidated salary Rs.35000/- p.m. + HRA

***General information:***

The position is temporary for a period of 1 year and tenable only for the duration of the project. The appointment is for time bound project and the candidate is required to work mainly for the successful completion of the project. The selection committee may offer lower or higher designation and lower or higher salary depending upon the experience and performance of the candidate in the interview.

Candidates called for interview will be required to attend at their own expenses.

For any queries/clarification please contact: [recruit@ircc.iitb.ac.in](mailto:recruit@ircc.iitb.ac.in)