



# INDIAN INSTITUTE OF TECHNOLOGY BOMBAY POWAI, MUMBAI 400076.

**Advertisement No.: IRCC/EXT097/2022**

**Job Title**

Junior Research Fellow

**Job Reference Number**

50303934

**Application End Date**

23.06.2022

**Type of Employment**

Proj. Staff Contract

**No. of Position(s)**

1

**IITB Project Recruitment:**

Project title: Method Apparatus for dynamic amplification of motion with frictionless precision guidance

About the project: Design and Development of embedded System for novel high-speed, high-resolution, and large volume 3D micro-printer.

**Essential Qualifications & Experience:**

BTech/MTech in Electronics Engineering with minimum 2 years of experience in design embedded hardware and software (interfacing actuators and sensors) along with GUI, engineering and product development. Skills in electronics design analog/digital. Printed circuit board design with software such as Eagle.

Candidate should have NET/GATE qualification.

Desired additional qualification: Good coding skills with Matlab/python software and background in mechatronics. Hands on experience with microcontroller such as Raspberry pi, Tiva-C/ STM32 / Arduino with focus on interfacing actuators and sensors. Basic Knowledge of electronic test instrument Oscilloscope, DMM

**Job Profile:**

Designing of embedded hardware as per the required specifications, development of embedded software including HMI and user space apps development PCB Designing, fabrication, assembly and testing and integration with electromechanical components.

Design and Development of embedded hardware and software for patented Micro 3d Printer developed at IIT Bombay -Development of HMI and user-space control software.

**Pay Details:**

Consolidated salary Rs.31000/- 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 his/ her own expenses.

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