



# INDIAN INSTITUTE OF TECHNOLOGY BOMBAY POWAI, MUMBAI 400076.

**Advertisement No.: IRCC/EXT104/2024**

## **Job Title**

Project Research Engineer

## **Job Reference Number**

50574632

## **Application End Date**

06.05.2024

## **Type of Employment**

Proj. Staff Contract

## **No. of Position(s)**

1

## **IITB Project Recruitment:**

Project title: Recruitment of Project Staff for COEOGE through donation fund.

About the project: Title: "Determining GPS coordinates at Odometer location" : The Pipeline Inspection Gauge (PIG) is equipped with an industrial Inertial Measurement Unit (IMU) and three odometers that generate the data for the estimation of Global Positioning System (GPS) coordinates. In addition, at some fixed marker locations along the pipeline, GPS coordinates are known with an accuracy of +/-0.25 metres along the latitude and longitude. The objective of the project is to synthesise an algorithm for determining GPS coordinates at all odometer locations (estimating pipeline GPS location).

## **Essential Qualifications & Experience:**

MTech/ME/MDes or equivalent degree

OR

BTech/BE/MA/MSc/MCA/ MBA or equivalent degree with 2 years relevant experience

Desirable strengths:

- Knowledge in Extended Kalman Filter and Navigation dynamics using Inertial Measurement Unit.
- Experience in solving large dataset related problems or implementation of Kalman filter or similar state estimation algorithms.

## **Job Profile:**

Developing software plugin in matlab and/or C to solve an industrial optimization problem for offline state and parameter estimation. The candidate should have experience in basic object oriented coding and numerical optimization using matlab and/or C

You will be working under the direct guidance of a postdoctoral fellow to implement novel techniques for industrial use. You will be responsible for developing an efficient software plugin based on an existing code, analyse results, and draft reports for the project.

## **Pay Details:**

Level PR-O1: Salary range from Rs.33600 to Rs. 67200 + Rs.6250.00/- Out Of Campus Allowance (if applicable) p.m.

***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)