



## NATIONAL INSTITUTE OF INDUSTRIAL ENGINEERING (NITIE) MUMBAI

Vihar Lake Road, Powai, Mumbai – 400087

(An autonomous Institute under the Ministry of Education, Govt. of India)

National Institute of Industrial Engineering (NITIE) was founded in 1963 as a collaborative effort between the Government of India and the International Labor Organization. NITIE prepares students for a seamless induction into industry and academia by blending management principles and technical skills. NITIE has been providing solutions to the complex problems of industries. Currently, NITIE has 9 research areas, 3 Postgraduate programs, a fellow program, and various executive development programs. Further details are available at [www.nitie.ac.in](http://www.nitie.ac.in).

### **NITIE invites applications for *Research Associate (full time) for Project titled: “Route Planning for Transporting Emergency Relief Commodities using UAVs”***

In disaster management, unmanned aerial vehicles (UAVs) can be beneficial to save human lives, monitor the disaster-affected areas, and transport essential goods for humanitarian logistics. Specifically, in recent years, the applications of UAVs have gained huge popularity in the following two domains: (i) Assessment and Monitoring, (ii) Last Mile Distribution of Emergency Relief Goods. In this project, we propose to design and develop a humanitarian emergency aid delivery model that aims to determine the optimal routes for UAVs for transporting emergency relief commodities.

**Essential Qualification:** B.Tech / M.Tech / Dual Degree / Equivalent Degree in Computer Science, Mathematics, Statistics, Operations Research, Scientific Computing, Industrial & System Engineering. MBA in Operations / Supply Chain Management are also encouraged to apply.

**Desired Qualification:** Good quantitative background with proficiency in Optimization, Data Analytics. Strong computation skills with experience in handling software like R, Python. Knowledge and experience in Artificial Intelligence (AI), Machine Learning (ML) and Deep Learning (DL) would be an added advantage.

**Job Profile:** The selected candidate will be engaged in:

- **Research:** developing data-driven AI/ML/Optimization models, performing experimentation, and writing reports.
- **Administration:** Initiating and coordinating research project related administrative activities at the institute.
- **Outreach:** Liaisoning with industries, and identifying & collecting reading material, preparing research reports and case writing.

**Skills:** Applicants should:

- have excellent written and verbal communication skills.
- must be self-motivated.
- be able to work in a team.
- have strong research and problem-solving aptitude.



**Position:** one

**Age:** Below 30 years, preferred

**Remuneration:** The maximum salary will be Rs. 30,000/-pm (consolidated). The amount will be fixed based on the qualifications and recommendations of the selection committee.

Interested persons may send soft copy of their CV by e-mail “**Application for Research Associate**” to SRIC Office: [sric.tech@nitie.ac.in](mailto:sric.tech@nitie.ac.in), within two weeks from date of this advertisement.

The employment is purely temporary in nature and will be a for a period of 89 days which may be extended upto one year at the discretion of the competent authority. Eligible candidates will be called for interview as per the recommendation of the screening committee. Fulfilment of minimum qualification is not a claim for receiving interview call. The institute reserves right to reject any/all applications without assigning any reason. No interim correspondence will be entertained.

**Form link:**

<https://docs.google.com/forms/d/1jyEydMgL65Vd1qJDxuTOnYjzdG5HuYc8sMdocmOnKQM/prefill>

**Start Date:** 26/06/2023

End Date: 10.07.2023