



**NATIONAL INSTITUTE OF TECHNICAL TEACHERS'
TRAINING AND RESEARCH, KOLKATA**

(An Autonomous Institution under the Ministry of Education, Govt. of India)

Block – FC, Sector – III, Salt Lake City, Kolkata – 700106

Website: <http://www.nitttrkol.ac.in>

**Engagement of Research Assistant(s), Project Manager and Potential
Entrepreneurs on contract basis.**

National Institute of Technical Teachers' Training and Research, Kolkata requires 5 (five) Research Assistants for various ongoing projects of the Institute at its main campus located at the above address and 1 (one) Project Manager and 9 (nine) Entrepreneur Trainees for North Eastern States purely on contract basis. Interested candidate may send their application alongwith all testimonials and a recent passport size photograph to the Director at the above address on or before **11/09/2023**. For detailed advertisement visit Institute's website <www.nitttrkol.ac.in>.

Advt. No. 04/2023-24

DIRECTOR



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Advertisement for Engagement of Research Assistants, Project Manager and Potential Entrepreneurs on contract basis.

National Institute of Technical Teachers' Training and Research, Kolkata requires 5 (five) Research Assistants for various ongoing projects of the Institute at its main campus located at the above address and 1 (one) Project Manager and 9 (nine) Potential Entrepreneurs for the Incubation Center for North Eastern States at NITTR Kolkata Extension Centre, Guwahati purely on contract basis.

1. Research Assistant (Contractual)

- i. No of Post : 1 (One)
- ii. Name of the project : Development of teacher training model using experiential learning
- iii. Essential Qualification : Masters in CSE/IT.
- iv. Age* : Not more than 40 years as on 31.08.2023
- vi. Tenure : 2 years.
- vi. Remuneration : Consolidated Remuneration of Rs.32,000/- per month for the 1st year and Rs.35,000/- per month for the 2nd year.

2. Research Assistant (Contractual)

- i. No of Post : 1 (One)
- ii. Name of the project : Implementation of ranking framework for the polytechnics of North East region
- iii. Essential Qualification : M.Tech with 2 years experience in teaching/managerial activities.
- iv. Experience : Accreditation / Organizational assessment related work and management of Polytechnic Education system, handling statistical software including MS excel
- v. Age* : Not more than 40 years as on 31.08.2023
- vi. Tenure : 2 years.
- vii. Remuneration : Consolidated Remuneration of Rs.32,000/- per month for the 1st year and Rs.35,000/- per month for the 2nd year.

3. Research Assistant (Contractual)

- i. No of Post : 1 (One)
- ii. Name of the project : Microstructure and properties of ceramic nanoparticle reinforced nickel based superalloys matrix nanocomposites for jet engine nozzle.
- iii. Essential Qualification : M.E./M.Tech. with specialization in Mechanical Engineering/Manufacturing Technology/Material Science and Engineering/Metallurgy/Nano Science & Nanotechnology.
- iv. Experience : Research experience in at least one of the following areas: nanomaterials, powder metallurgy, super alloys, scanning electron microscope, metal matrix composites/nanocomposites.
- v. Age* : Not more than 40 years as on 31.08.2023
- vi. Tenure : 2 years.
- vii. Remuneration : Consolidated Remuneration of Rs.32,000/- per month for the 1st year and Rs.35,000/- per month for the 2nd year.

4. Research Assistant (Contractual)

- i. No of Post : 1 (One)
- ii. Name of the project : Design of RC shear walls overcoming the shortcomings of IS13920-2016 and development of P-M interaction charts.
- iii. Essential Qualification : BE/ B.Tech in Civil Engineering and ME / M.Tech Structural Engineering.
- iv. Experience : Freshers with flair in RC Design can also apply.
- v. Age* : Not more than 40 years as on 31.08.2023.
- vi. Tenure : 2 years.
- vii. Remuneration : Consolidated Remuneration of Rs.32,000/- per month for the 1st year and Rs.35,000/- per month for the 2nd year.

5. Research Assistant (Contractual)

- i. No of Post : 1 (One)
- ii. Name of the project : Development of deep learning based tool for Question Paper evaluation using Bloom's Taxonomy.
- iii. Essential Qualification : BE/B.Tech in Computer Science and Engineering / Information Technology or equivalent with at least 60% Marks CGPA.
ME/M.Tech in Computer Science and Engineering or equivalent with at least 60% Marks CGPA.

- iv. Experience : Desirable qualification:
Proven experience as an Natural Language Processing (NLP) Engineer or similar role. Deep understanding of text representation techniques / word embedding (such as n-grams, bag of words, sentiment analysis etc), statistics and classification algorithms. Understanding of Large Language Models and Recurrent Neural Networks (such as LSTM, GPT etc.). Proficiency in Python programming. Experience in machine learning platforms, frameworks (PyTorch, TensorFlow), and libraries (like scikit-learn, NLTK). Integration of Python with PHP for active web application development. Ability to effectively design software architecture. Documentation experience for software components. Highly motivated to learn new things and having critical thinking skill
- v. Age* : Not more than 40 years as on 31.08.2023
- vi. Tenure : 2 years.
- vii. Remuneration : Consolidated Remuneration of Rs.32,000/- per month for the 1st year and Rs.35,000/- per month for the 2nd year.

**Age relaxation for reserved category as per Govt. norms.*

6. Project Manager

- i. No. of Post : 1 (One)
- ii. Qualification Requirements : Master degree in Civil/Computer Science/Mechanical/Electrical Engineering/Technology or Doctoral degree in Civil/Computer Science/Mechanical/Electrical discipline.
- iii. Desirable : Industrial/research experience and experiences in entrepreneurship, innovation & research commercialization.
- iv. Tenure : The post is purely contractual in nature for twelve (12) months only subject to the review of performance after six months.
- v. Remuneration : Consolidated remuneration of Rs.50,000/- per month.

7. Entrepreneur Trainees

- i. No. of Seat : 09 (Nine)
- ii. Qualification Requirements : Diploma holder in any branch of Engineering/Technology or B.E./B. Tech in any branch of Engineering/Technology. Potential Entrepreneurs must be from one of the **North Eastern states** of the country.
- iii. Desirable : Work Experiences.

- iv. Duration of Training : One year (subject to the review of performance after six months) entrepreneurship related training to the selected candidates will be provided at the NITTTR Kolkata's Extension Centre at Guwahati with free of cost. After training, selected candidates are expected to start their own business at one of the **North Eastern states** of the country.
- iv. Stipend : A monthly consolidated stipend of Rupees twenty five thousand only (Rs.25,000/-) to the selected candidate will be provided.

Interested candidates may send their CV affixing a latest passport size photograph along with self-attested testimonials in an envelope super scribing on top of the envelop "**Application for the Engagement of Research Assistant/Project Manager/Potential Entrepreneurs on contract basis**" addressed to the Director, National Institute of Technical Teachers Training & Research, Kolkata, Block – FC, Sector – III, Salt Lake City, Kolkata – 700106 latest by **11/09/2022**. The candidate willing to apply for more than one posts should send their application in a separate envelop for each post.

Advt. No. 04/2023-24

Director