



दूरभाष Ph : 91-80-25530672-76

## भारतीय ताराभौतिकी संस्थान INDIAN INSTITUTE OF ASTROPHYSICS

(विज्ञान व प्रौद्योगिकी विभाग, भारत सरकार के अधीन स्वायत्त संस्थान)  
(An Autonomous Body under Department of Science & Technology, Government of India)  
कोरमंगला Koramangala, बेंगलूरु BENGALURU -560034

**Advt.No.IIA/ 24/2022 dated: 06.10.2022**

Indian Institute of Astrophysics (IIA) is an autonomous academic national institution under Department of Science & Technology, Govt. of India dedicated to research in Astronomy, Astrophysics and Allied Sciences & Technology. The Institute has its main campus in Koramangala, Bangalore and CREST Campus at Hosakote, Bangalore. It operates field stations at Kavalur & Kodaikanal in Tamilnadu, Gauribidanur in Karnataka, and Leh/Hanle in Union Territory of Ladakh.

India has joined the Thirty Meter Telescope (TMT) project, the next generation astronomical observatory that will be located on Mauna Kea, Hawaii. India's participation in the TMT Project, led by the Indian Institute of Astrophysics (IIA), Bengaluru, Inter University Centre for Astronomy and Astrophysics (IUCAA), Pune and Aryabhata Research Institute for Observational Sciences (ARIES), Nainital is coordinated by the India TMT Coordination Centre (ITCC) hosted at IIA, Bengaluru. The TMT project is an international partnership between California Institute of Technology (Caltech), Universities of California, Canada, Japan, China and India. More details about the project can be found at <http://tmt.iap.res.in>.

The Thirty Meter Telescope (TMT) will be the world's most advanced ground-based observatory that will operate in optical and mid-infrared wavelengths. It will be equipped with the latest innovations in precision control, phased array of mirror segments and laser guide star assisted adaptive optics system. At the heart of the telescope is the segmented mirror, made up of 492 individual hexagonal segments, each 1.44-m in size. Precisely aligned, these segments will work as a single reflective surface of 30-m diameter. India is responsible for providing various critical hardware components and software to the telescope as part of in-kind contribution. Manufacturing of the sub-systems by Indian industry are at various stages.

Online applications are invited from dynamic and highly motivated individuals for the following position to work at ARIES, Nainital.

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<b>Name of the position</b>	:	<b>PROJECT ENGINEER -I (Electronics)</b>
<b>No. of position</b>	:	One
<b>Age limit</b>	:	30 years

<b>Remuneration</b>	:	Rs. 76,500/- per month (Consolidated)
<b>Place of Posting</b>	:	Nainital, Uttarakhand
<b>Educational Qualification</b>	:	B.E/B. Tech in Electronics/Electrical/Instrumentation or equivalent Engineering from a University/Institution recognized by the UGC/AICTE with a minimum of 60% marks or equivalent grade.
<b>Essential Experience</b>	:	Minimum two years experience after graduation, of working in an industry/public sector/government establishments in design and development activities in the field of control systems, servo control, motion control, process control, PLCs, embedded controllers, mechatronics, robotics, power electronics, drives etc.

The candidate is required to have knowledge of control system design, mechatronics, servo/motion controllers and related components like industrial drives, encoders, motors, PLCs, implementation, and programming. Must be familiar with Unix/Linux and windows platform along with software development tools like C/C++, Python, QT, Labview, Matlab etc. Preference will be given to candidate familiar in design and implementation of Motion Control Systems.

**Note:** The selected candidate should be ready to work in any of the participating Institutes of TMT Project depending on the requirement of the Project viz. Aryabhata Research Institute for Observational Sciences (ARIES), Nainital, Indian Institute of Astrophysics (IIAP), Bangalore and Inter University Centre for Astronomy and Astrophysics (IUCAA), Pune.

**Job Description:** The selected candidate will be a member of the ITCC electronics team. Responsibilities include but not limited to:

- i) Survey of commercial off the shelf control components including motion controllers, precision encoders, BLDC motors, PLCs, real time network for distributed control, cable management system etc.
- ii) End to end design and development of motion control and PLC based prototypes for electromechanical systems by following industrial safety standards. Evaluating their performance, merits and demerits.
- iii) Development of cabling scheme, power budget, bill of material etc.
- iv) Development of software for human machine interface.
- v) Preparation and review of design schematics of CAD software and reports on the above development work.
- vi) Active participation and presentation of the work in meetings involving national and international members.
- vii) Regular interaction with vendors.
- viii) Procurement and shipment related activities.
- ix) Training the subordinate team members to handle the above tasks.
- x) Candidate may need to work closely with the ITCC/TMTPO team members and Indian industries involved in the prototyping, production of hardware systems and their testing. A positive performance in this role will lead to increased responsibilities. Job may require frequent travel.

### **Terms & Conditions :**

- 1) The appointment is purely temporary on contract basis and does not entitle any privileges or benefits of regular employment. No claim whatsoever for regular employment in the Institute shall be entertained.
- 2) The tenure of appointment is initially for a period of one year and may last till the duration of project and will co-terminus with project completion. Continuation of contract appointment is subject to (a) requirements of the project and (b) satisfactory performance of the candidate assessed annually.
- 3) The date of determining the upper age limit, qualifications and experience shall be the closing date prescribed for receipt of completed applications.
- 4) The remuneration indicated is a consolidated and is inclusive of all allowances.
- 5) There will be annual increase in the remuneration based on satisfactory performance.
- 6) It is open to the Institute to conduct written test to shortlist the candidates for interview in case the attendance of candidates is more.
- 7) Age relaxation is permissible to SC, ST & OBC candidates and also to physically handicapped candidates as notified by Govt. of India from time to time.
- 8) The candidates selected will be posted to work in ARIES, Manora Peak, Nainital, Uttarakhand/ IIA, Bengaluru and are liable to be posted anywhere in India as per the requirement of the Project.
- 9) Institute reserves the right to cancel the entire recruitment process at any time without assigning any reasons whatsoever.
- 10) No correspondence will be entertained with the candidates not selected for interview / appointment. Canvassing in any form will be a disqualification.
- 11) Candidates of Indian Nationality only can apply for this position.
- 12) The prescribed educational qualifications are minimum required and mere possession of the same does not entitle candidates to be called for interview. Where the number of applications received in response to the advertisement is large and it will not be convenient or possible for the Institute to interview all those candidates, the Institute reserves the right to limit number of candidates to be called for interview on the basis of qualifications and experience higher than the minimum prescribed in the advertisement and also conducting written test.

- 13) Outstation candidates called for Interview will be reimbursed to and fro train/bus fare by the shortest routes limited to second sleeper class railway fare on production of tickets.
- 14) **Candidates meeting the above requirements and willing to be considered for the above said position may submit application through online only.** Candidates are required to upload their scanned Curriculum Vitae (CV), Date of Birth Proof, Educational Qualification, Experience and Community Certificates in the online application.
- 15) Misrepresentation or falsification of facts detected at any stage of the selection process or instances of misconduct/misbehavior at any stage during selection process shall result in cancellation of candidature without any notice and no correspondence in this regard shall be entertained.
- 16) **The last date for receipt of online application is 10.11.2022 at 5:30PM.**
- 17) For registration, please visit: **[https://www.iiap.res.in/iaa\\_jobs/](https://www.iiap.res.in/iaa_jobs/)**

प्रशासनिक अधिकारी/ **Administrative Officer**