



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, बेंगलूर BANGALORE -560034

### Advt. No.IIA/05/2021 dated 27<sup>th</sup> April 2021

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.

Online applications are invited from eligible young, bright and highly motivated individuals are for the following position to work for Prototype Segmented Mirror Telescope (PSMT)/ National Large Optical Telescope (NLOT) related project.

**Name of the position** : **ENGINEER TRAINEE (ELECTRONICS)**

**No. of position** : One

**Qualification** : **Essential:** BE/B.Tech in Electronics Engineering or equivalent from a reputed University/ Institution. Candidate should have fairly good knowledge of analog electronics as well as having exposure to micro-controllers & FPGA.

**Desirable:** Familiarity with Linux and Windows, C, C++ and Labview, PCB design software, OrCAD, Altium etc.

**Age limit** : Below 25 years

**Remuneration** : Rs. 20,000/- (consolidated inclusive of all)

**Place of posting** : Bangalore

**Nature of the work** :

Indian astronomical community requires a large optical-NIR telescope. However, building a telescope of 10m or larger is possible, only if the primary mirror is made of small mirror segments. In order to get acquainted with the segmented mirror technology, a pilot project to develop a 1.3 meter size Prototype Segmented Mirror Telescope (PSMT) has been initiated at IIA.

The PSMT will have all kinds of subsystems one can expect in any large telescope made of segmented mirrors. The proposed prototype telescope will use seven hexagonal mirrors, which will be supported by simple mirror support system and driven by indigenously developed voice coil based actuators. We also plan to make use of in-house developed inexpensive inductive edge sensor.

The entire development activities are divided into two phases. In the first phase, a seven segments laboratory test bed will be developed. Whereas, in the second phase the full-fledged telescope will be realized. The Electronics Engineer is expected to contribute in testing indigenously developed actuator as well as edge sensors. Shortly, the test bed of the PSMT phase-I will be ready and candidate has to work in implementing primary mirror control system as well as testing it. However, in the long run, Engineer Trainee need to work for developing a mount control of the PSMT phase-II, of Alt/Az telescope.

**Terms & Conditions :**

- 1) The appointment is purely temporary on contract basis and does not entitle any privileges or service benefits applicable to regular employees of the Institute. No claim whatsoever for regular employment in the Institute shall be entertained.
- 2) The tenure of traineeship is initially for a period of one year and extendable for two more years subject to satisfactory performance of the candidates and requirement of the project.
- 3) The date for 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. There will be annual increase in the remuneration based on satisfactory performance and continuation in the project.
- 5) 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.
- 6) 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.
- 7) Candidates of Indian Nationality only can apply for this post.
- 8) The candidates selected will be posted to work at IIA, Bengaluru and are liable to be posted anywhere in India as per the requirement of the Institute.
- 9) The 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 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 pdf document of Curriculum Vitae (CV), Date of Birth Proof, Educational Qualification, Experience and Community Certificates in the online application.
- 12) 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.
- 13) **The last date for receipt of online application is 10 days from the date of publishing of advertisement in IIA Website.**
- 14) For registration, please visit: [https://www.iiap.res.in/iaa\\_jobs/](https://www.iiap.res.in/iaa_jobs/)

प्रशासनिक अधिकारी Administrative Officer