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INDIAN INSTITUTE OF ASTROPHYSICS
(An Autonomous Body under Department of Science & Technology, Government of India)
2nd Block, Koramangala, Sarjapur Road, BANGALORE -560034

Advt. No.IIA/11/2018 dated 28th June, 2018

WALK-IN INTERVIEW ON 20th July, 2018

The Indian Institute of Astrophysics (IIA) is an autonomous academic national institution of the 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 Jammu & Kashmir.

To cater increasing need of growing Indian astronomical community need for 10-12 meter size telescope is strongly realized in India. Building a telescope from a monolithic mirror bigger than 8 meter in size is becoming highly impractical and the larger telescopes are being developed around the segmented mirror technology. Before embarking to a large segmented mirror telescope project, it is very essential to understand complexities of the segmented mirror technology and therefore, a small prototype telescope of 1.2-1.5 meter size made of segmented mirror (PSMT) is being developed at IIA. The PSMT will have all kind of subsystems which 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 assembly and driven by indigenously developed voice coil based actuators. We also plan to make use of in-house developed inexpensive inductive edge sensor, which can precisely sense inter-segment relative displacement. The telescope mount is suppose to be Alt-Az and secondary will be supported by trusses made of steel. The primary axes like elevation, azimuth and field de-rotator will be driven by direct drive motors. The secondary drive will either have single axis focusing option or else there is proposal to use three axes and move the secondary in focus, as well as in tip and tilt. Though the primary objective of this telescope is to demonstrate the segmented mirror technology, however, we have designed the telescope in such way that it can also be used to few dedicated science cases. The telescope is planned to be installed at Hanle, Ladakh India which is also a potential site for India's large telescope project.

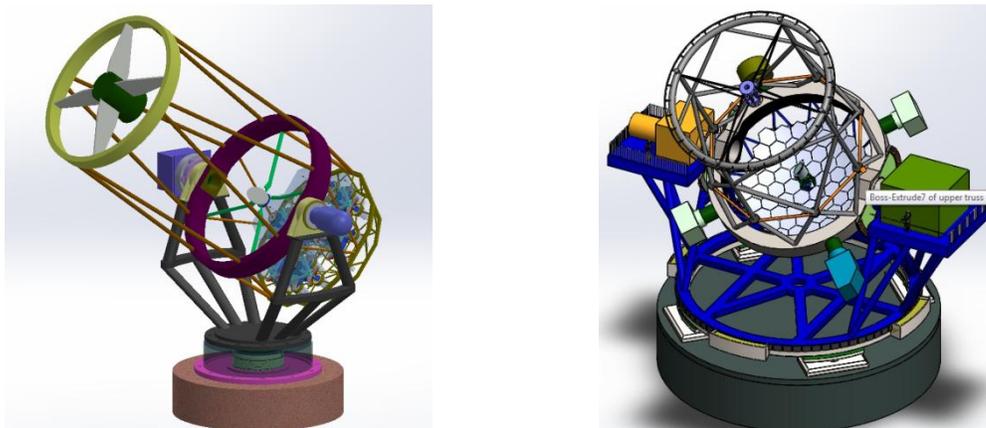


Figure 1 Conceptual design of 1.3m Prototype Segmented Mirror Telescope (left) and 10m class National Large Optical Telescope (right).

Eligible young, bright and highly motivated individuals are invited to attend Walk-in interview on **20th July, 2018** at the Institute Campus, 2nd Block, Koramangala, Bangalore between 09.00 AM and 05.00 PM for the following position to work for the PSMT/NLOT projects and related 10-m class Telescopes Project:

- Name of the position** : **ENGINEER TRAINEE (Mechanical)**
- No. of position** : **One**
- Qualification** : BE/B.Tech in Mechanical Engineering or equivalent with a minimum of 60% marks from a recognized University/Institution.
- Experience** : **(a) Essential:** Familiarity with mechanical design and analysis tools like AUTOCAD, SOLIDWORKS, INVNTOR, ANSYS, NASTRAN etc..
- (b) Desirable:** Some exposure in mechanical design preferably related to large precision system.
- Age limit** : 26 years.
- Remuneration** : Rs. 20,000/- per month (inclusive of all)
- Place of work** : Bangalore
- Nature of Job** : The trainee engineer is primarily expected to assist in detailed mechanical design and analysis work with CAD tools in realizing optical telescopes made of segmented mirror. The work involves detailing out the telescope elements such as Alt-Azimuth mount, mirror-cell, segment support assembly and secondary mount and drive etc. While working for smaller prototype telescope, the trainee engineer is also expected to work in close association with industries as well as expected to visit high altitude place in Ladakh India.

Candidates attending the walk-in interview should come with duly filled in prescribed application attached with this advertisement with a passport size photograph pasted on the top of the application along with original certificates related to their qualification and experience and also one set of self certified Xerox copies. The candidates should register their name between 09.00 AM and 10.00 AM on the date of Walk-in-interview and the candidates coming beyond this time will not entertained.

Terms & Conditions:

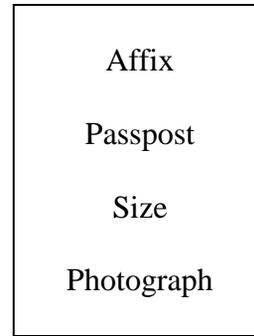
- 1) The appointment is purely on temporary/contract basis and does not entitle any privileges or benefits of regular employment.
- 2) The tenure of appointment is initially for a period of two years and extendable by one more years subject to satisfactory performance of the candidate and requirement of the project.
- 3) The date for determining the upper age limit, qualifications and experience shall be the date of walk-in interview.
- 4) 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.

- 5) The Institute reserves the right to cancel the entire recruitment process at any time without assigning any reasons whatsoever.

- 6) No correspondence will be entertained with the candidates not selected for interview / appointment. Canvassing in any form will be a disqualification.

Administrative Officer

APPLICATION FORMAT



1. Post Applied for :

2. Full Name (in block letters) :

3. Father's/Spouse name :

4. Date of Birth :

D	D	M	M	Y	Y	Y	Y

5. Address
(a) Permanent :

(b) for Communication :

(c) Telephone/Mobile No. :

(d) E-mail id :

6. Sex :

7. Marital Status :

Contd....2

8. Whether belongs to SC/ST/OBC/ :
PH/ General

9. Details of educational qualifications:

Sl.No.	Name of School/ Institute	Exam passed	Year of passing	Subjects	Class/ Division	% of marks
1						
2						
3						
4						
5						

10. Computer knowledge:

11. Details of Experience, if any:

12. Additional information, if any:

Declaration

I hereby declare that all the particulars furnished above are true, complete and correct to the best of my knowledge and belief. In the event of any information being found false or incorrect, my candidature may be cancelled without any notice at any stage of recruitment and thereafter.

Date:
Place: Bangalore

Signature of the candidate