Optics System Development Lead (Instrumentation Projects)

Remuneration: Consolidated salary of Rs. 40,000/- p.m.

No. of Post: 01 (One)

Age Limit: 35 years (Relaxation as per Govt. of India norms)

Qualification & Experience: First Class Degree in B.Tech./ B.E. or M.Sc. (Optics) or allied areas.

The candidate should have at least two years of experience working on design, development, integration and/or testing of scientific instruments.

The following skill sets are expected for the position:

- Optical design, optimization and tolerance analysis
- Alignment and assembling of optics for imaging/spectroscopy applications
- Simulation and testing of optical systems
- Embedded System and Control Electronics Design
- Hands on experience in using latest test and measurement tools in optics

Good knowledge of design software such as Zemax is essential. Familiarity with COMSOL, ASAP, SolidWorks etc, will be of added value. Software programming skills in Python, C, C++ etc. will strengthen the candidature. Experience with handling astronomical imaging systems will be a plus. Any experience of working on satellite payload development related activities will be highly valuable.

The candidate should explicitly mention in the application if he/she has any of these additional skills/knowhow which will be used for initial screening.

Job:
The work will be in a challenging environment for design, development, assembly, testing and commissioning of cutting edge instruments for astronomy. Innovative and Creative work culture with high dedication and motivation is needed.

1. Design and development of optical systems for instruments being developed in the lab
2. Work with other agencies such ISRO and industries responsible for various aspects of design and development
3. Participate in and/or organize reviews, discussions
4. Help with procurement processes from vendors, fabricators and industries in coordination with IUCAA administration
5. Developing, testing, debugging, characterization and delivery of components
6. Participate in assembly, integration and testing of subsystems and full instruments) at laboratory facilities in IUCAA and elsewhere in the country
7. The candidate should be willing to pick up the requisite abilities quickly
8. The candidate should be willing to work beyond regular office hours and for other related tasks in the instrumentation laboratory as well as at collaborating centres/institutions

Last date of application: March 20, 2023