

Scientific & Technical Officer - C

Pay Scale: Level-10 in the pay matrix (56,100 - 1,77,500) VII CPC with other allowances as per Govt. of India norms.

No. of Post: One (Reserved for SC)

Age Limit: 35 years (Relaxation as per Govt. of India norms)
(Age limit is not applicable to departmental Candidates)

Qualification & Experience: B.Tech. / B.E. (Mechanical or allied areas) with two years of relevant work experience or M.E. with, one year of relevant work experience.

The following skill sets are expected for the position:

- Opto-mechanical design and optimization
- 3D model development
- Finite Element Analysis (static, dynamic, thermal, thermostatic etc.) of the models
- Development of 2D drawings for fabrication as per GD&T standards
- Alignment and assembling of optics/optomechanical systems for imaging/spectroscopy applications
- Simulation and testing of mechanical systems including thermal analysis
- Hands on experience in using latest test and measurement tools in mechanical

Good knowledge of design software such as SolidWorks is essential. Familiarity with COMSOL, NX Nastran etc., will be of added value. Ability to use other CAD and Simulation tools like AutoCAD, Autodesk Inventor will be of interest. Software programming skills in Python 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/know how 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. Carry out procurement processes from vendors, fabricators and industries in coordination with IUCAA administration
5. Developing, testing, debugging, characterization and delivery of components
6. Bubble diagrams and inspection reports
7. Participate in assembly, integration and testing of subsystems and full instrument(s) at laboratory facilities in IUCAA and elsewhere in the country
8. The candidate should be willing to pick up the requisite abilities quickly
9. 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.