

## **Indian Institute of Astrophysics**

### **Applications for Faculty positions (Rolling advertisement)**

The Indian Institute of Astrophysics (IIA) invites applications for faculty positions. Details of the scientific activities and its facilities are available on the Institute's website (<https://www.iiap.res.in/>)

Ongoing activities at IIA are in the areas of [theoretical astrophysics](#), [sun and solar system objects](#), [exoplanets](#), [stars and stellar systems](#), [time domain astronomy](#), [instrumentation](#) and facility development. The Institute offers challenging opportunities to researchers working in Astronomy, Astrophysics and related fields.

**In this announcement, applications are invited in two specific categories (1) Solar astrophysics and (2) Theoretical astrophysics. Applications in other areas relevant to the Institute will also be considered under this special drive.** The applicant should have a Ph.D. in the relevant area with a minimum 4 years of post-doctoral experience. The applicants should have a proven record of carrying out independent research programmes, with a good number of publications and academic credentials.

- (1) **Solar and Heliospheric Physics:** The Institute is currently leading two big national projects, viz. space coronagraph for ISRO's Aditya-L1 mission and a ground-based National Large Solar Telescope (NLST), to advance solar and heliospheric science. The Institute invites applications from candidates with experience in solar and heliospheric science and expertise in one or more of the following areas:

Solar magnetism, variability, eruptive phenomena and space weather studies with wide experience in space-based observational and data-driven science; computational solar physics/astrophysics and numerical simulations that address magnetohydrodynamic and data-driven models of solar dynamo, interior dynamics, surface and atmospheric magnetic activity and solar wind.

- (2) **Theoretical Astrophysics:** The Institute invites applications from candidates with experience in theoretical astrophysics and expertise in one or more of the following areas in connection to astrophysics:

Gravitational dynamics, plasma physics, general and special relativity, atomic and molecular physics, radiative transfer theory and high energy astrophysics; and working on applications to one or more areas including the Sun, (exo) planets, stars and compact objects, ISM, galaxies, extragalactic astrophysics or cosmology

The application material should include,

1. A cover letter
2. A detailed curriculum vitae
3. A list of publications with citations and H-index

4. A summary of research and academic experience
5. A brief write-up on how they bring value to the Institute's activities
6. An outline of research goals and plans
7. Arrange for three letters of reference

The above material should be sent by email to [diriii@iiap.res.in](mailto:diriii@iiap.res.in) with a copy to [dean@iiap.res.in](mailto:dean@iiap.res.in). The applications submitted before 31 December 2020 will be processed immediately.

IIA operates major observatories across the country: [the Indian Astronomical Observatory](#), Hanle, Ladakh, [the Vainu Bappu Observatory](#), Kavalur, [Kodaikanal Solar Observatory](#), Kodaikanal, [the Gauribidanur Observatory](#), Gauribidanur. IIA is a key partner in the [ultraviolet telescope payload \(UVIT\)](#) onboard India's first multi-wavelength space observatory ASTROSAT, and in India's participation in the next generation mega optical and infrared telescope facility, the ["Thirty Meter Telescope \(TMT\) International Observatory"](#) or TIO. IIA is also building the Visible Emission Line Coronagraph (VELC) a payload on India's Solar Mission [ADITYA L1](#). Additionally, IIA is working on proposals to set up a [2m National Large Solar Telescope \(NLST\)](#), a 10m class optical/NIR national telescope (NLOT) in the Ladakh region and an Optical-UV next generation space telescope.