

Indian Institute of Technology Indore

Advertisement for PhD position at the Centre of Astronomy

Autumn Semester AY 2018-19

Research Areas

Centre of Astronomy is an interdisciplinary centre at IIT-Indore focusing on a wide range of topics related to Astronomy and Space weather and navigation studies. The centre is a unique department among all IITs that offers a dedicated and focused platform to pursue research in Astronomy.

Faculties have varied research interests in -

Observational Cosmology : HI (21 cm) Cosmology
Galaxy clusters: Mergers and Interaction with CMB
Computational Astrophysics
X-ray Binaries, Rotation-powered pulsars and magnetars
Transients

Radio Astronomy Instrumentation and Signal Processing
Space weather and ionospheric studies
High Energy Plasma Astrophysics
Navigation, Spacecraft and Payload Control
The Galaxy and Interstellar medium

Since February, 2015 we are also founder members of the *Square Kilometer Array - India (SKA-I) consortium*. Our faculty members are actively involved in **SKA-I related research**. In addition, faculties are involved in multiple national and international projects viz., **ASTROSAT, Thirty Meter Telescope (TMT), PLUTO Code and Indian Regional Navigation Satellite System (IRNSS)**.

Candidates are strongly advised to visit the profiles of the faculty members at (<http://astronomy.iiti.ac.in/faculties.html>) before applying for the PhD program.

Admission Categories

Applications are invited from highly motivated and research-oriented students for admission in its PhD Program at the Centre of Astronomy for the academic year 2018-2019. The applications are invited in the following admission categories –

For Indian Students : [a] FA (Fellowship Awardee), [b] TA (Teaching Assistantship), [c] SW (Sponsored WITHOUT Institute Scholarship), [d] IS (Institute Staff), [e] DF (Defense Forces) and [f] CT (College Teachers). *For International Students* : [a] ISF (International Self Finance), [b] ISW (International Sponsored by Industry of NGO and [c] GSW (International Sponsored by Government Organisation). For more details about each category please refer to the main advertisement for PhD Admission : <http://academic.iiti.ac.in/phdadvt.php>

Eligibility Criteria

- Minimum first class* Master degree in Physics/Applied Physics/Astronomy and Astrophysics/Applied Mathematics/Statistics with valid UGC/CSIR-JRF/GATE or Equivalent Fellowship, OR
- Minimum first class* M. Tech/M. Phil degree in Engineering Physics/ Electrical Engineering/ Computer Science/ Material Engineering OR
- Minimum first class* Bachelor degree in the above mentioned Engineering/Technology disciplines with a valid GATE score OR
- B.Tech from an Indian Institute of Technology (IIT) with a minimum CPI of 8.0.

* *The first class is defined as*

- 60 % marks for GEN/OBC (55% for SC/ST) category in aggregate, OR
- CPI/CGPA of 6.0 for GEN/OBC (5.5 for SC/ST) category on the scale of 10; with corresponding proportional requirements when the scales are other than on 10 (for example 4.8 for GEN/OBC category (4.4 for SC/ST) on a scale of 8) , OR
- A first class as specified by the University/Institute awarding the degree.

Application Procedure

- Candidates must apply **ONLINE** through our website (<http://academic.iiti.ac.in:8080/nregistration.jsp>) - **Last Date of Application - May 31, 2018** (for International students) and **May 20, 2018** (for Indian students)
- **Application Fee:** 100/- Indian Rupees to be paid through State Bank Collect (<https://www.onlinesbi.com/prelogin/collecthome.htm>). No application fee is payable by the International students for 2018-Autumn Semester.
- After Submitting the application online, the eligible candidate has to send the signed hard-copy of the application mentioning Statement of Purpose (SOP) along with State Bank Collect receipt, recent photograph, Self- attested relevant Certificates, (for SW candidates: No Objection Certificate, Experience Certificate, last 3 months salary slip and Employer's PAN card) to the DPGC convener by **June 15, 2018** (for International students) and by **May 27, 2018** (for Indian students).
- The eligible candidate should also arrange to send **TWO** letter of recommendation to email addresses mentioned below at least **one week** before the date of Interview. The recommendations from the referees listed in the application form should be send directly to the emails listed below.

Contact

Dr. Abhirup Datta (Head, Astronomy); Dr. Bhargav Vaidya (DPGC Convener)

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