

Indian Institute of Technology Indore
Simrol Campus, Khandwa Road, Indore – 453552
Centre of Astronomy

Advertisement for Admission to Ph.D. Program for Spring Semester of AY 2018-2019

IIT Indore is an institution of national importance and is ranked highly in terms of both research and teaching. According to the latest NIRF rankings of MHRD, Government of India, it has been ranked fifth in terms of teaching, learning, and resources parameters amongst all institutes of India.

Research Areas:

Centre of Astronomy is an interdisciplinary centre at IIT-Indore focusing on a range of topics related to Astronomy and Space weather and navigation studies. It is a unique centre among all IITs that offers a dedicated platform to pursue research in Astronomy and related areas.^[SEP] Current research areas include:

Observational and Computational Cosmology	Radio Astronomy Instrumentation
Galaxy Clusters and Large Scale Structures	Space Weather and Ionosphere
Computational Astrophysics	Star and Planet Formation
Neutron Stars, Pulsars and Black Holes	Navigation, Spacecraft and Payload Control
Transients	The Galaxy and Interstellar Medium
Machine Learning and Big Data	Remote Sensing and RADAR
Satellite Communication	Signal and Image Processing
Radio and X-ray Observations	

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, PLUTO code, Sky Watch Array Network (SWAN) and Navigation with Indian Constellation (NavIC) related research**. Our faculty members and students are extensively using national/international facilities like the **ASTROSAT, LOFAR, uGMRT, VLA, ATCA, SWIFT, NuStar, NICER, XMM-Newton, Chandra X-ray Observatory** and look ahead for active involvements in upcoming projects like **Thirty Meter Telescope (TMT), James Webb Space Telescope (JWST), EUCLID and Aditya-L1 mission**.^[SEP]

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.

Categories of Admission:

Kindly refer to the main PhD Advertisement of the Institute available at <http://academic.iiti.ac.in/phdadvt.php>

Eligibility:

- First division/class* in Masters degree in Physics/Applied-Physics/Astronomy and Astrophysics/Applied - Mathematics/Statistics or equivalent with valid UGC/CSIR-JRF/GATE or Equivalent Fellowship, OR
- First division/class* in M. Tech/M. Phil degree in Engineering Physics/ Electrical Engineering/ Electronics and Communications/ Space Science/Computer Science/ Aerospace / Mechanical / Material Engineering or equivalent, OR
- First division/class* in Bachelors 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 division/class is defined as^[1]_{SEP}*

- 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 – October 1, 2018.

Application Fee of 100/- INR to be paid online through State Bank Collect (<https://www.onlinesbi.com/prelogin/icollecthome.htm>).

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 October 9, 2018.**

The eligible candidate should also arrange to send **TWO** letter of recommendation from the referees listed in the application form should be send directly to the emails listed below before **October 9, 2018.**

Shortlisted candidates will be called for interview - Date of Interview: October 24, 2018.

For any queries please contact:

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

Discipline of Astronomy^[1]_{SEP}

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