

**India-based Neutrino Observatory (INO) Collaboration  
announces admissions to its Graduate Training Programme leading to Ph.D. degree in  
High Energy Physics & Astronomy**

India-based Neutrino Observatory program is a mega science project to set up an underground laboratory for carrying out front-ranking experiments in high energy neutrino physics and astroparticle physics. See <http://www.imsc.res.in/~ino> for details regarding the INO project and the collaborating institutions.

**ASTROSAT** is the first Indian Multi-Wavelength Astronomy Satellite being developed by several collaborating institutes in India.

**The Graduate Programme:**

A large number of well trained physicists and engineers will be needed to lead the experimental activities in high energy and astroparticle physics to be carried out using the INO facility. In order to achieve this goal, a training programme with strong emphasis in experimental high energy physics, astro-particle physics & observational astronomy will be started in August 2008.

**Highlights:**

- The selected candidates will be initially trained for one year at TIFR, Mumbai, in both experimental techniques and theory.
- The focus will be on detector building, physics issues as well as other developmental activities of INO. A few students opting for astronomy, will be trained in techniques of Infrared & X-ray astronomy.
- Successful candidates after the training will be attached to Ph.D. guides at various collaborating institutions for a Ph. D. degree on the basis of their INO related work. Students with astronomy preference will join one of the Ph. D. programmes within TIFR.
- Exceptionally good candidates have a possibility to be absorbed in the INO project at a later stage.

### ***Eligibility for admission:***

- (1) Applicants must hold a M.Sc degree in Physics, Mathematics, Statistics or BE/BTech degree in Electronics, E & CE, Mechanical, Electrical engineering with strong inclination for experimental sciences. Applicants must have secured a minimum of 55% of marks in the respective degree examinations (those who are appearing for these examinations may also apply provided their current GPA is above 55% or equivalent).
- (2) In addition, they must have either cleared GATE or NET or appeared this year for the entrance tests of TIFR or DAE/BARC training school or JEST.

### ***Special Programme for Exceptional B.Sc. Students :***

Exceptionally bright Final year B.Sc students may also apply. These students will undergo 1 year of training at FRI, Allahabad before they qualify for the graduate programme

### ***Scholarship and other benefits:***

During the training period students will be paid Rs 12,000 per month (Rs 14,000 after registering for Ph. D.). Departmental accommodation would be provided at nominal cost. Successful candidates after the training programme will continue to receive the scholarship during their Ph. D. studies.

### ***Admissions procedure:***

Short-listed candidates will be called for an interview at one of the participating institutes at Chennai, Kolkata and Mumbai around June. They will be paid the train fare by sleeper class. Short-listed final year BSc candidates will have to appear for a written test in addition to interview.

### ***How to apply:***

You may apply online at the website "<http://www.hecr.tifr.res.in/~ino>" or fillup the downloadable form and send it to **Co-ordinator, INO Training Programme, DHEP, Tata Institute of Fundamental Research, Homi Bhabha Road, Mumbai-400005**. Applicants should also arrange for 2 reference letters to be sent separately to the address above. The last date for the receipt of completed application forms is **April 15, 2008**