

TATA INSTITUTE OF FUNDAMENTAL RESEARCH (A DEEMED UNIVERSITY)

Homi Bhabha Road, Colaba, Mumbai 400 005.

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Research opportunities for exceptionally talented and strongly motivated students

Ph.D. Programme in Mathematics, Physics, Chemistry, Biology, Computer and Systems Sciences and Science Education Integrated Ph.D. Programme in Mathematics (Bangalore) and Biology M.Sc. Programme in Biology and Wildlife (Biology) and Conservation

The Tata Institute of Fundamental Research conducts a graduate programme leading to the award of Ph.D. degree, as well as M.Sc. and Integrated Ph.D. degrees in certain subjects.

Subjects: • **Mathematics:** School of Mathematics, Mumbai (Ph.D. programme, <http://www.math.tifr.res.in>) and Centre for Applicable Mathematics (CAM), Bangalore (Ph.D. and Integrated Ph.D. programme in Applicable Mathematics, <http://math.tifrbng.res.in>). • **Physics** (<http://www.tifr.res.in/~sbp>): Department of Astronomy and Astrophysics, Department of Condensed Matter Physics and Materials Science, Department of High Energy Physics, Department of Nuclear and Atomic Physics, Department of Theoretical Physics (all at Mumbai campus); National Centre for Radio Astrophysics (NCRA), Pune (<http://ncra.tifr.res.in>); Biophysics at the Department of Chemical Sciences, Mumbai and NCBS, Bangalore (<http://www.ncbs.res.in/ibio>). • **Chemistry:** Department of Chemical Sciences, Mumbai (<http://www.tifr.res.in/~dcs>); Biological Chemistry at NCBS, Bangalore (<http://www.ncbs.res.in/ibio>). • **Biology:** Department of Biological Sciences, Mumbai (<http://www.tifr.res.in/~dbs>); National Centre for Biological Sciences (NCBS), Bangalore (<http://www.ncbs.res.in>). • **Computer and Systems Sciences:** School of Technology and Computer Science (STCS), Mumbai (<http://www.tcs.tifr.res.in>). • **Science Education:** Homi Bhabha Centre for Science Education (HBCSE), Mumbai. For details about admission to the Ph.D. programme in Science Education please see <http://www.hbcse.tifr.res.in>.

Graduate School (GS 2010): The Academic year starts from 1 August 2010. **Stipend:** Ph.D. and Integrated Ph.D. students receive a monthly scholarship of Rs 12,000 enhanced to Rs 14,000 after registration.

Eligibility:

• **Mathematics:** For Ph.D. – M.Sc./B.E./B.Tech./M.Tech./M.A./B.A./B.Sc. degree holders. For Integrated Ph.D. – B.A./B.Sc/B.E./B.Tech. degree holders (Master's degree holders are not eligible for this programme).
• **Physics and Chemistry:** For Ph.D. – M.Sc./B.E./B.Tech./M.Tech. degree holders. Final year B.Sc. student may also apply.
• **Biology:** For Ph.D. – Master's in Basic Science or Bachelors in Applied Science. These include M.Sc. (Ag.), B.Tech., B.E., B.V.Sc., B. Pharma (4 yrs course), MBBS, BDS, M. Pharma. For Integrated Ph.D./M.Sc. – Bachelors in any Basic Science; and for M.Sc. (Wildlife (Biology) and Conservation): Degree in any discipline with a strong interest in Wildlife Biology.
• **Computer and Systems Sciences:** For Ph.D. – B.E./B.Tech./M.E./M.Tech./M.C.A./M.Sc. (Computer Science/Electrical Engineering/Electronics Engineering/Information Technology) degree holders. Exceptionally well qualified students with B.E./B.Tech./M.E./M.Tech./M.Sc. or equivalent degrees in other disciplines may also be considered.

➤ Final year students with consistently good academic record and knowledge of advanced topics may also apply for the relevant subjects.
➤ Candidates not holding a Master's degree and admitted to a Ph.D. programme can receive an M.Sc. degree by fulfilling prescribed requirements (see <http://www.tifr.res.in/~gsoffice> for details).

Admission Procedure: The admissions procedure (in all subjects except Science Education) consists of a written test at one of several nationwide centres. The written test will be held on Sunday, 13 December 2009 at the following centres: **Ahmedabad** (St. Xavier's College), **Bangalore** (UAS), **Bhubaneswar** (Utkal University), **Chandigarh** (Panjab University), **Chennai** (IIT), **Cochin** (CUSAT), **Delhi** (Miranda House), **Guwahati** (IIT),

Haldwani (M.B. Govt P.G. College), **Hyderabad** (Hyderabad University), **Indore** (Devi Ahilya University), **Jaipur** (India Intl. School), **Kanpur** (IIT), **Kolkata** (St. Xavier's College), **Madurai** (The Madura College), **Mangalore** (Mangalore University), **Mumbai** (TIFR), **Nagpur** (Shri Ramdeo Baba Kamla Nehru Engg. College), **Patna** (Radiant International School), **Patna** (Patna Science College), **Pune** (Spicer Memorial College), **Varanasi** (BHU), **Visakhapatnam** (Andhra University). **Interviews:** For information on subsequent interviews, please check the website.

Application Procedure: Submit online application at <http://univ.tifr.res.in>

Only students from remote areas who have no access to internet may send their request for application form along with a self-addressed stamped (Rs 20) envelope (25 cm × 17 cm) superscribed GS-2010 (Subject). All others to submit online applications only.

Application Fee (Non-refundable): Rs 500 for applications submitted online and Rs 550 for applications sent manually by post. Payment can be made online by Credit/Debit Cards or by Demand Draft drawn on State Bank of India. • **Biology and M.Sc. (Wildlife and Conservation):** DD to be drawn in favour of 'National Centre for Biological Sciences', payable at Bangalore. • **All other subjects:** DD in favour of 'Tata Institute of Fundamental Research', payable at Mumbai. Hall-tickets will be issued only after receipt of application fee. Online applicants sending DD (Rs 500) by post should write their reference code, name and telephone number behind the DD and send it to the address as given below. Students applying manually should send the DD for Rs 550 along with the filled-in application form.

Address for mailing application and DD: • **Biology and M.Sc. (Wildlife (Biology) and Conservation):** Admission Section, National Centre for Biological Sciences, TIFR, GKVK, Bellary Road, Bangalore 560 065. Enquiries to phd@ncbs.res.in or call 080-23666404. • **All other subjects:** University Cell, Tata Institute of Fundamental Research, Homi Bhabha Road, Colaba, Mumbai 400 005.

A waiver of the application fee on grounds of financial distress may be requested by a letter from the Principal or the Head of Department justifying the request. Students may apply online and send the waiver letter/request from the Principal/HOD by post with a covering letter mentioning the reference code. Manual applicants may send the letter along with the filled-in application form. These requests would be considered depending on availability of seats in each Centre and cannot be guaranteed.

Candidates may appear for the written test in multiple subjects if the timings do not clash. Please send separate application (including Demand Draft) for each subject.

Last date for receiving applications for hall-tickets: **16 October 2009.**

Walk-in Candidates: Some candidates without hall-tickets may be admitted if seats are available. In this case the application fee is Rs 800 (No waivers). Please be present at the centres 2 hours early for Biology and 1 hour early for other subjects and bring all original mark sheets; Demand Draft for Rs 800 and two photos and any photo identity card. Walk-ins will not be possible for Biology in Delhi centre.

PH: As per rules 3% reservation for students with disabilities shall be provided.

DATE & TIME FOR NATIONWIDE ENTRANCE EXAMINATION : SUNDAY, 13 DECEMBER 2009

Physics, Chemistry, Computer & Systems Sciences and Wildlife (Biology) & Conservation: 9.30 a.m. to 12.30 p.m.
Mathematics & Biology: 2.30 p.m. to 4.30 p.m.