The Tata Institute of Fundamental Research invites applications for admission to its M.Sc., Integrated M.Sc.-Ph.D. (I-P.H.D.), and Ph.D. Graduate Programs in the subjects given below:

**SUBJECTS:**

- Mathematics (Ph.D. and I-P.H.D. programs)
  - School of Mathematics, Mumbai (http://www.math.tifr.res.in)
  - Centre for Applicable Mathematics, Bangalore (http://mapmath.tifr.res.in)
  - International Centre for Theoretical Sciences (ICTS), Bengaluru (http://www.icts.res.in)
- Physics (Ph.D. and I-P.H.D. programs)
  - Department of Astronomy & Astrophysics, Department of Condensed Matter Physics & Materials Science, Department of High Energy Physics, Department of Nuclear & Atomic Physics, Department of Theoretical Physics (all at Mumbai campus) (http://www.tifr.res.in/theo)
  - National Centre for Radio Astrophysics (NCRA), Pune (http://www.ncra.tifr.res.in)
  - TIFR Centre for Interdisciplinary Sciences (TCIS), Hyderabad (http://www.tifr.res.in)
- Chemistry (Ph.D. and I-P.H.D. programs)
  - Department of Chemical Sciences, Mumbai (http://www.tifr.res.in/chem)
  - TIFR Centre for Interdisciplinary Sciences (TCIS), Hyderabad (http://www.tifr.res.in)
  - Biology (Ph.D., I-P.H.D. and M.Sc. programs)
    - Department of Biological Sciences, Mumbai (http://www.tifr.res.in/bio)
    - National Centre for Biological Sciences (NCBS), Bengaluru (http://www.ncbs.res.in)
  - I-P.H.D. programs only
    - TIFR Centre for Interdisciplinary Sciences (TCIS), Hyderabad (http://www.tifr.res.in)
    - Ph.D. and I-P.H.D. programs only
      - Computer & System Sciences (Ph.D. program) including Communications and Applied Probability: School of Technology & Computer Science, Mumbai (http://www.tcsc.tifr.res.in)
    - Science Education (Ph.D.): Homi Bhabha Centre for Science Education, Mumbai. For admission procedure, see http://www.hbcsc.tifr.res.in

**GRADUATE SCHOOL (GS-2019):**
The academic year starts from August 1, 2019. Stipend: Ph.D. students receive a monthly fellowship of Rs. 25,000/- enhanced to Rs. 28,000/- after registration. I-P.H.D. students receive a monthly fellowship of Rs. 18,000/- for the first year. At the end of the first year, upon satisfactory performance, the fellowship is enhanced to Rs. 25,000/- per month (further raised to Rs. 28,000/- after registration for Ph.D.). Monthly fellowship for M.Sc. (Biology) is Rs. 18,000/- (HRA as applicable).

**ELIGIBILITY:**
Candidates in the final year of qualifying degree can also apply.

- Chemistry: For Ph.D.: M.Sc./B.E./B.Tech./M. Pharm. or equivalent degree. • For I-P.H.D.: B.Sc./B.Pharm./B.Sc. degree or equivalent degree. Candidates with B.E./B.Tech. degrees can optionally get an M.Sc. degree by fulfilling necessary requirements. • Biology: Candidates will be short-listed for interview based on written test marks, CV and Scientific Writing. • For Ph.D.: Masters in Basic Science (M. Sc. Physical Chemistry/Any branch of Biology) or any professional Master's Degree (M. Pharm/M. Tech.), or a 4- year degree program (e.g. M.B.B.S., B.D.S.). • For I-P.H.D. (M.Sc.): Bachelor's in any Basic Science (Physics/Chemistry/Any branch of Biology) or any 4-year degree program that awards a 'Bachelor's degree' including B.Tech., B.E., B.V.Sc., B.Pharm. (4-year course).

**Course Offerings:**
- Computer Science & Systems Science (including Communications and Applied Probability: Ph.D. - B.Tech./B.E./M.Tech./M.E./M.C.A./M.Sc. or equivalent degree in Computer Science/Electronics & Communications Engineering/Electrical Engineering or related branches. Exceptionally well qualified students with B.Tech./B.E./M.Tech./M.E./M.C.A./M.Sc. degrees in other disciplines may also be considered. Exceptionally well qualified students with a three year degree in relevant subjects may be considered for I-P.H.D.
- Ph.D. Candidates not holding a Master's degree and admitted to a Ph.D./I-P.H.D. program can receive an M.Sc. degree in some subjects by fulfilling prescribed requirements (see http://www.tifr.res.in/gateoffice for details).

**ADMISSION PROCEDURE:** The admissions procedure (in all subjects except Science Education) consists of an online test at one of the several nationwide centres followed by interview/second written test or orientation camps depending on the program. The online test will be held on Sunday, December 9, 2018 in the following cities: Agartala, Ahmedabad, Bengaluru, Bhilai, Bhavnagar, Chandigarh, Chennai, Cochin, Dehradun, Gauhati, Hardwar, Hyderabad, Indore, Jaipur, Jamshedpur, Kolkata, Madurai, Mangalore, Mumbai, Nagpur, Patna, Pune, Varanasi and Visakhapatnam.

**Interviews:** For information on subsequent interviews, please check our website.

**GATE score based applications in Systems Science (including Communications and Applied Probability):** Engineering students with exceptional performance in GATE examination of 2019 in Electrical, Electronics and Communications Engineering. Mathematics may apply for the Ph.D. program without appearing for the TIFR Entrance Test. The link for GATE score based applications will be made available on our website on February 5, 2019. Last date for applying will be two weeks after the GATE 2019 results are displayed on our website. In case a student fails the Systems Science TIFR Entrance Test and also submits a GATE score based application, the better of the two performances will be considered.

**GATE score based applications in Ecology and Evolution:** Students with exceptional performance in GATE examination of 2017-2019 in Ecology and Evolution may apply for the Ph.D. program in Biology at the National Centre for Biological Sciences without appearing for the TIFR Entrance Test. The link for GATE score based applications will be made available on the NCBS website on February 5, 2019. Last date for applying for both the above GATE score based applications will be two weeks after the GATE 2019 results are displayed on their website.

**GATEJESTINEET exam scores for Physics, Biology and Chemistry:** In addition to the admissions through the nationwide examination in December, some admissions in Physics, Biology and Chemistry based on GATE / NET / JEST scores in the relevant subjects are also possible. Details of these admission procedures will be available on the websites of TIFR-Mumbai, NCRA-Pune, NCBS-Bengaluru, ICTS-Bengaluru and TCIS-Hyderabad, separately at appropriate times.

**APPLICATION PROCEDURE:** Submit online applications at http://www.tifr.res.in

**APPLICATION FEE (Non-Refundable):** Male Applicants - Rs. 900/-; Female Applicants - Rs. 300/-.

**Eligibility:** Applications can be made online by netbanking/Credit/Debit cards OR by Demand Draft drawn on State Bank of India in favour of “Tata Institute of Fundamental Research”, payable at Mumbai.

**Hall Tickets:** Will be issued only after receipt of the application fee. Online applicants sending DD by post should write their reference code, name and mobile number behind the DD and send it to: University Cell, Tata Institute of Fundamental Research, Homi Bhabha Road, Colaba, Mumbai 400005. Please superscribe GS-2019 (Subject) on the envelope. Enquiries if any, may be sent to gsc@tifr.res.in

**Biological applications may write to phd@nimb.res.in**

A waiver of application fee on grounds of financial distress may be requested by a letter from the Principal or the Head of the Department justifying the request. Students may apply online and send the waiver letter/request from the Principal/HOD (on their letter head duly signed and stamped) by post at the address mentioned above. Alternately, the recommendation letter can be scanned and uploaded. These requests would be considered depending on availability of seats in each Centre and cannot be guaranteed.

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

**Last date for Application:** November 12, 2018.

**NATONAL WIDE GRADUATE SCHOOL ENTRANCE EXAMINATION (GS-2019):** SUNDAY, DECEMBER 9, 2018

**Morning Session:** Physics, Chemistry and Computer & Systems Sciences: 9:30 a.m. to 12:30 p.m.
**Afternoon Session:** Biology (JEGBILS): 2:30 p.m. to 4:30 p.m.

**Mathematics:** 2:30 p.m. to 5:30 p.m.