



# INDIAN INSTITUTE OF SCIENCE BANGALORE

## ADMISSIONS 2020

Applications are invited from eligible applicants for admissions to regular (1) **Research Programmes** [Ph D / M Tech (Research)] (2) **Course Programmes** [M Tech/M Des/M Mgt], (3) **Integrated Ph D Programmes**, and also to (4) **Ph D under External Registration Programmes**. The gist of the admission operations is given in the following paragraphs. Applicants are advised to go through the eligibility criteria, specialisations, areas of research, selection procedure and other details available at separate links on the IISc website (e.g, <http://www.iisc.ac.in> → Admissions → Programmes → PG Research programmes → M Tech (Research)/Ph D → Eligibility).

Applicants possessing the educational qualification including those in the final semester/year of their qualifying examinations, but expect to complete all the requirements for award of the degree (like examinations, project dissertation, viva-voce etc.) by 31 July 2020 and can furnish the necessary certificates on and before 31 October, 2020 are eligible to apply.

### 1. **RESEARCH PROGRAMMES [Ph D/M Tech (Research)]**

#### 1.1 Departments / Areas

**Ph D in Science Faculty:** Astronomy & Astrophysics, Biochemistry, Ecological Sciences, High Energy Physics, Inorganic & Physical Chemistry, Materials Research, Mathematics, Microbiology & Cell Biology, Molecular Biophysics, Molecular Reproduction, Development & Genetics, Neurosciences, Organic Chemistry, Physics, and Solid State & Structural Chemistry.

**M Tech (Research) and Ph D in Engineering Faculty:** Aerospace Engineering, Atmospheric & Oceanic Sciences, Chemical Engineering, Civil Engineering, Computer Science & Automation, Earth Sciences, Electrical Communication Engineering, Electrical Engineering, Electronic Systems Engineering, Instrumentation, Management Studies (Ph D only), Materials Engineering, Mechanical Engineering, Nano Science and Engineering (Ph D only), Product Design & Manufacturing, Sustainable Technologies, and Computational & Data Sciences.

**Ph D in Interdisciplinary areas:** BioSystems Science and Engineering (offered by Centre for Biosystems Science and Engineering), Energy (offered by Interdisciplinary Centre for Energy Research), Mathematical Sciences (offered by National Mathematics Initiative), Nanoscience and Engineering (offered by the Centre for Nano Science and Engineering), Water Research (offered by Interdisciplinary Centre for Water Research), Cyber Physical Systems (offered by Robert Bosch Centre for Physical Systems), Climate Change (offered by Divecha Centre for Climate Change), Brain and Artificial Intelligence (offered by Brain, Computation, and Data Science group).

**1.2 Eligibility :** Applicants possessing a minimum of second class or equivalent in the following degrees as applicable to the individual departments / areas are eligible to apply:

<i>Sl. No.</i>	<i>Qualifying degree</i>	<i>Qualifying in national entrance tests (Mode of entry)</i>
1	Bachelor's degree in Engineering/Technology/ 4-year Bachelor of Science	Valid GATE score* / NET JRF** is mandatory
2	Master's degree in Science / Master's degree in Economics, Geography, Psychology, Management, Commerce, Operations Research, Computer Science/ Application	Valid GATE score / NET JRF is mandatory
3	Master's degree in Engineering / Technology / Architecture/ Agriculture / Pharmacy / Veterinary Sciences	Desirable to have valid GATE score / NET JRF/GPAT.
4	MS/MBA (post BE/B Tech/M Sc) – (applicable for the department of Management Studies/Ecological Sciences)	Desirable to have valid GATE score / NET JRF.
5	Bachelor's degree or its equivalent in Engineering/ Technology from any <b>Centrally Funded Technical Institutions</b> , with a <b>minimum CGPA of 8.5 out of 10</b> or its equivalent (for Ph D only)	Desirable to have valid GATE score / NET JRF.
6	MBBS/MD	Desirable to have valid GATE score / NET JRF.
7	B Pharma	Valid GPAT score / JRF
8	Bachelor's degree holders in Physics / Chemistry / Mathematics / Statistics / Computer Science /Electronics followed by qualifications obtained through examinations conducted by professional societies recognised by UPSC/AICTE as being equivalent to a Bachelor's degree in Engineering.	Valid GATE score / NET JRF is mandatory

\*The GATE score should be valid as on 01 August 2020. Candidates securing the valid GATE score for the years 2018/2019/2020 may apply.

\*\* NET JRF includes – Joint CSIR-UGC NET for JRF; UGC-NET for JRF; DBT JRF; ICMR JRF; JEST; NBHM Screening Test 2020; INSPIRE fellow.

**1.3 Selection procedure:** Candidates are shortlisted for an interview based on their performance in the National Entrance Test and/or the qualifying degree as detailed in the above table. The selection is based on the performance in the interview (in some of the departments, an aptitude test/preliminary interview will precede the interview/final interview).

## **2. COURSE PROGRAMMES [M Tech/M Des/M Mgt]**

### **2.1 M Tech Programmes**

<b><i>2.1.1 Departments / programmes</i></b>	<b><i>2.1.3 Selection procedure</i></b>
Aerospace Engineering, Civil Engineering, Computer Science and Engineering, Instrumentation & Applied Physics, Materials Engineering.	Based only on the GATE score
Chemical Engineering, Climate Science, Computational & Data Sciences, Earth Science, Electronic Systems Engineering, Electrical Engineering, Mechanical Engineering, Microelectronics and VLSI Design	Based on the GATE score and the performance in an aptitude test/interview
Artificial Intelligence, Communication and Networks, Nano Science and Engineering, Signal Processing, Smart Manufacturing	Based on the GATE score and the performance in an interview

### 2.1.2 Eligibility

Applicants possessing a minimum of Second Class or equivalent in a bachelor's degree in an appropriate field of Engineering / Technology or Master's degree in Physical Sciences, Mathematics, Statistics, Geology, Instrumentation, Electronics, Computer Applications as applicable to individual departments / programmes with a **valid GATE 2018 / 2019 / 2020 score** are eligible to apply.

2.1.3 M Tech programmes interview schedules are, as given on the IISc website [www.iisc.ac.in/admissions](http://www.iisc.ac.in/admissions) under Important Dates.

**2.1.4 Common Offer Acceptance Portal (COAP)** provides a common platform for the candidate to make the most preferred choice for an admission into M.Tech Programmes through GATE in participating institutions (IISc & IITs). Admission offers for M Tech programmes of IISc for all the above disciplines and also for M.Des. (from GATE stream) will be made on COAP. Candidates will have to register on COAP and must update the COAP registration number on Applicant's Interface. Please visit the website <http://coap.iitm.ac.in/> to register as per the instructions given therein.

**2.1.5 Sponsored candidates** from Defence, BARC, DRDO, ISRO, NAL, NTRO, KSRTC, BMTC, BDA, PWD and CPRI applying for a course programme under the sponsored category must compulsorily fill an online application form and submit the printed version, in duplicate, on or before 30 March 2020.

## 2.2. Master of Design (M Des) in Product Design and Engineering offered by Centre for Product Design and Manufacturing

### 2.2.1 Eligibility

Applicants possessing a minimum of second class in Bachelor's degree in Engineering / Technology Design / Architecture with **valid GATE 2018/ 2019/ 2020** or **CEED 2020 score** are eligible to apply.

**2.2.2 Selection procedure:** Candidates will be shortlisted for a design aptitude test and an interview based on the GATE / CEED score as per the schedule given on the IISc website under Important Dates. Selection will be based on the performance in GATE / CEED, design aptitude test and interview. The announcement of the results and issue of admission of offers for candidates shortlisted on GATE score will be through COAP, and for those based on CEED, directly by the Institute. Therefore, the candidates with GATE are required to register on COAP as detailed at section 2.1.4

## 2.3 Master of Management (M Mgt)

### 2.3.1 Eligibility

Applicants possessing a minimum of first class or equivalent in Bachelor's degree in Engineering / Technology or equivalent with a **valid GATE 2018/ 2019/ 2020** or **CAT 2019** or **GMAT scores** are eligible to apply.

### 2.3.2 Selection procedure :

Candidates will be short-listed for a group discussion and interview based on GATE / CAT / GMAT scores as per the schedule given on the IISc website under Important Dates. Selection will be based on the performance in the group discussion and interview.

### **3. INTEGRATED Ph D PROGRAMMES**

<b>3.1 Disciplines</b>	<b>3.2 Eligibility</b>	
	<b>Educational qualification</b>	<b>Qualifying examination</b>
<b>Biological Sciences</b>	A minimum of first class or equivalent in Bachelor's or an equivalent degree in Physical, Chemical or Biological Sciences (including Biotechnology, Pharmaceutical, Veterinary Sciences and Agricultural Sciences) or  A minimum of first class or equivalent in BE/ B Tech degree.	JAM 2020 in Biotechnology(BT) or Chemistry (CY) or Mathematics (MA) or Physics (PH)  Biotechnology (BT)
<b>Chemical Sciences</b>	A minimum of first class in B.Sc. or an equivalent degree with Chemistry as one of the main subjects with Mathematics at the PUC or Plus 2 level.	JAM 2020 in Chemistry (CY) or Physics (PH)
<b>Mathematical Sciences</b>	A minimum of first class or equivalent in B Sc or equivalent degree with Mathematics as one of the subjects or BE/BTech or equivalent degree.	JAM 2020 in Mathematics (MA) or Mathematical Statistics (MS)
<b>Physical Sciences</b>	A minimum of first class or equivalent in B.Sc. or an equivalent degree with Physics as one of the main subjects.	JAM 2020 in Physics (PH) or JEST 2020

**3.3.3 Selection procedure:** Candidates will be short listed for interview based on their JAM 2020 score for all the four disciplines, and those cleared JEST 2020 for Physical Sciences. Selection for (a) Chemical Sciences will be based on the performance in the interview; (b) Biological, Physical and Mathematical Sciences will be based on combined performance in the qualifying examination and interview.

### **4. Ph D under External Registration Programme (ERP)**

**This programme is meant for (1) professionals from R&D Organizations / Industries and (2) Faculty members from Engineering, Agricultural, Pharmaceutical, Veterinary, Medical Colleges/ Universities, recognized by the appropriate government agencies.**

#### **4.1 Eligibility**

The educational qualifications remain the same as for the regular candidates. Qualifying in one of the national entrance tests like CSIR-UGC NET for JRF, UGC-NET for JRF, DBT JRF, ICMR JRF, GATE, NBHM is desirable but not mandatory. Further, the candidate should have completed two years of full-time employment in the current organization after completion of degree. The candidates must be officially sponsored by their employing organizations.

**4.2 Selection procedure :** Based on the performance in an interview.

## **HOW TO APPLY**

Applications for all the programmes mentioned above are available **online**. Hence the applicants should apply online only. Visit website [www.iisc.ac.in](http://www.iisc.ac.in) → **Admissions** for more details and register online and fill the application.

## **APPLICATION FEE**

<b>Category</b>	<b>Application Fee*</b>
General / OBC / EWS (economically weaker section)	Rs.800
SC / ST / PwD (person with disability)	Rs.400
ERP candidates (all categories)	Rs.2000
Sponsored candidates from Defence, BARC, DRDO, ISRO, NAL, NTRO, KSRTC, BMTC, BDA, PWD and CPRI	Rs.800
*The fee is non-refundable; any bank or payment gateway service charges must be borne by the applicant.	

Payment options: Online payment through net-banking, debit card, visa/master credit card.

## **IMPORTANT DATES**

Website opens for on-line submission of applications	<b>01.02.2020</b>
Last date for online submission of applications (website closes at 23:59 hours on 23.03.2020)	<b>23.03.2020</b>

**Reservation / concession / relaxations for SC/ST/OBC/EWS/Person with disability (PwD) and Kashmiri-Migrant (KM), Kashmiri Pandits/Kashmiri Hindu Families(Non Migrants) living in the Kashmir valley:** As per Government of India regulations. The minimum class prescribed in the qualifying examination is relaxed to a “Pass Class” for SC/ST candidates.

**Scholarships:** All the regular students (except M.Mgt) who join the Institute are eligible for scholarship from MHRD / CSIR / UGC/ ICMR / DBT / DST/ AICTE / DAE (NBHM) depending upon their mode of entry. Scholarships from many Indian and multinational agencies, and business houses are also available for meritorious students.

The applicants are advised to visit the website [www.iisc.ac.in/admissions](http://www.iisc.ac.in/admissions) and the department website to which they are applying to familiarize themselves with complete admission related matters, areas of research, etc.

**REGISTRAR**