

**Short-listing criteria for Admission to Ph.D. Program (Sem 1, 2019-2020)****Department of Biochemical Engineering and Biotechnology****INDIAN INSTITUTE OF TECHNOLOGY DELHI**

The candidates must have first class (60% or 6.0/10 CGPA) in all examinations starting from 10+2 up to the qualifying exam and they must meet the following criteria based on their qualifying exam degree:

**Table: 1 Minimum Qualification for Admission to full-time Ph.D. Programmes**

<b>Qualifying exam</b>	<b>Acceptable majors</b>	<b>General Category</b>	<b>General Category (EWS)</b>	<b>OBC (Non-creamy layer)</b>	<b>SC/ST &amp; PD</b>
B. Tech/B.E.	Biochemical Engineering, Chemical Engineering, Biotechnology, Industrial Biotechnology, Bioinformatics, Environmental Engineering, Pharmaceutical Biotechnology	(i) B.Tech 70% or 7.0/10 CGPA  (ii) Valid JRF or GATE score of min. 650 in Life Sciences or Biotechnology or Chemical Engg.	(i) B.Tech 70% or 7.0/10 CGPA  (ii) Valid JRF or GATE score of min. 650 in Life Sciences or Biotechnology or Chemical Engg.	(i) B.Tech 70% or 7.0/10 CGPA  (ii) Valid JRF or GATE score of min. 600 in Life Sciences or Biotechnology or Chemical Engg.	(i) B.Tech 65% or 6.5/10 CGPA  (ii) Valid JRF or GATE score of min. 550 in Life Sciences or Biotechnology or Chemical Engg.
M. Tech / M.E / MS(R) or equivalent	Biochemical Engineering, Chemical Engineering, Biotechnology, Industrial Biotechnology, Bioinformatics, Environmental Engineering, Pharmaceutical Biotechnology	(i) M.Tech 70% or 7.0/10 CGPA  (ii) GATE score not required	(i) M.Tech 70% or 7.0/10 CGPA  (ii) GATE score not required	(i) M.Tech 70% or 7.0/10 CGPA  (ii) GATE score not required	(i) M.Tech 65% or 6.5/10 CGPA  (ii) GATE score not required
M.Sc	Biochemistry, Biotechnology, Bioinformatics, Biophysics, Biosciences, Chemistry, Environmental Science, Genetics, Life Sciences, Microbiology	(i) M.Sc. 60% or 6.0/10 CGPA  (ii) Valid JRF or GATE score of min. 650 in Life Sciences or Biotechnology or Chemical Engg	(i) M.Sc. 60% or 6.0/10 CGPA  (ii) Valid JRF or GATE score of min. 650 in Life Sciences or Biotechnology or Chemical Engg	(i) M.Sc. 60% or 6.0/10 CGPA  (ii) Valid JRF or GATE score of min. 600 in Life Sciences or Biotechnology or Chemical Engg	(i) M.Sc. 55% or CGPA 5.5/10  (ii) Valid JRF or GATE score of min. 550 in Life Sciences or Biotechnology or Chemical Engg.

### **For B.Tech graduates from IITs**

In respect of B.Techs from IITs graduating with a CGPA of 8.0 or above, the requirement of qualification through a national examination is waived off.

### **For students from Centrally Funded Technical Institutions (CFTI)**

Requirement of qualification in GATE / National Exam is waived for the following categories of applicants from CFTIs:

- 1) Currently registered students in Centrally Funded Technical Institutes (CFTIs) pursuing B.Tech./B.E./ Integrated M. Tech/ Integrated M. Sc. programmes, who have completed 6 semesters or more, and have CGPA of 8.000 or above (on a 10 point scale). Such students must obtain a CGPA of 8.000 or above at the time of graduation, and before they formally register for the Ph.D. programme (80% aggregate marks, if marks is the primary mode of evaluation);
- 2) B.Tech./B.E./ Integrated M. Tech/ Integrated M. Sc. programmes of CFTIs (in the programmes marked under (1) with a final graduation CGPA of more than 8.000 (80% aggregate marks, if marks is the primary mode of evaluation);
- 3) M.Sc. graduates from IITs with CGPA 8.000 or above.

### **Minimum Qualifications for admission to Part-time and Sponsored (full-time) Ph.D. Programmes:**

The following eligibility conditions apply for the Part-time and sponsored full-time programmes:

1. Only employees of Public Sector Undertakings or Government Departments or Research and Development Organizations or Private Industries (approved by Faculty Boards) are eligible for admission to these programmes.
2. The minimum full-time experience required *after* obtaining the qualifying degree and as on date of registration, is given below in Table 2:

<b>Table 2: Experience required for admission to part-time Ph.D./ M.Tech./ M.S.(R) Programmes For admission to part-time programme</b>	<b>Qualifications</b>	<b>Work Experience (Post Qualification)</b>
Ph.D.	M.E./M.Tech./M.S.(R)/M.D.or Equivalent	Nil
Ph.D.	B.E./B.Tech./M.Sc./M.A./M.B.A./ MBBS or equivalent, from CFTIs/Central Universities	1 Year
Ph.D.	B.E./B.Tech./M.Sc./M.A./M.B.A./ MBBS or equivalent, and working in IIT Delhi* (Project or Regular) *Through proper channel	1 Year
Ph.D.	B.E./B.Tech./M.Sc./M.A./MBA/M BBS or equivalent, from institutions other than CFTIs/Central Universities	2 Years

3. Minimum qualification for these candidates is the same as for full-time candidates (**Table 1**), except that the requirement of qualifying in a national examination is waived.

4. For part-time candidates from outside NCR (or at a radial distance of more than 50 km from IIT Delhi), there is a minimum residency requirement of 6 months. The Department may specify a higher residency requirement based on the courses recommended as well as the background.