



**Government of India
Ministry of Science and Technology
Department of Biotechnology
(HRD Division)**

(1) Title of Program: Postgraduate (M.Sc./M.Tech.) Teaching Programmes in Biotechnology.

(2) Objective: The main objective of this program is to ensure quality teaching, training and nurturing excellence in Biotechnology education for generating critical mass of trained human resource in multidisciplinary areas of Biotechnology required for meaningful R&D activities in the country. Furthermore, students from this programme will be equipped to take independent decisions for start-ups or entrepreneurial launches and also become a new knowledge generator in Biotechnology.

(3) Selection of Students: Admission of the students will be made through All India Combined Entrance Examination i. e. Graduate Aptitude Test-Biotechnology (GAT-B).

(4) Reservation Policy: As per GOI Guidelines.

(5) Role of DBT: DBT will provide support for a period of three Years. Any further continuation will be dependent on strict performance evaluation.

(6) Who can apply?: Universities/Institutes/Organizations conducting postgraduate teaching programme in Biotechnology and recognized by statutory body can submit their proposals for financial support.

(7) Submission of Proposal: Proposal for financial assistance to Postgraduate (M. Sc /M.Tech) Teaching Programmes should be submitted as per prescribed DBT format, highlighting the learning outcomes against each course-curriculum, core or optional, and the practical-hands-on-exposure given to the students. Please submit the soft copy (one consolidated copy containing all the annexure and additional information related to program in word and PDF format) along with one hard copy of proposal back to back print in prescribed format duly forwarded by Head of the Institution/University. In this call for proposal, applications from States/UTs which are under represented in DBT Postgraduate Teaching Programme during the last five years are encouraged to apply for support. Format for the submission of proposal and State/UT wise list of already selected Postgraduate Teaching Program are placed below.

**Dr. Manoj Singh Rohilla
Scientist-'E'
HRD Division
Department of Biotechnology
Block 2, 6th Floor, Room No. 606
CGO Complex, Lodi Road
New Delhi-110003
Email: manojisrohilla.dbt@nic.in**

(8) Last Date of Submission of Proposal is 25th July, 2022.

Guidelines for Submission of Proposal:

These are advanced level courses which should be designed to train the students in multidisciplinary areas of Biotechnology. The teaching courses will be supported in the areas of Life Sciences and Biotechnology covering broader areas of basic, agricultural, medical, veterinary, engineering and allied areas with focus on specialized and new/emerging areas of Biotechnology which need to be incorporated as electives and core courses for imparting quality education and hands on training in Biotechnology.

1. Minimum requirement for DBT support:

- a) University/Institution should have minimum 6 core faculty members (regular) dedicated for the proposed teaching program in Biotechnology. Out of these 6 core faculty minimum 4 should be from Biotechnology stream either by qualification or by research publications during last 5 years.
- b) In addition to core faculty, there should be minimum 4-6 collaborating faculty from other science departments like Microbiology, Biochemistry, Zoology, Botany, Mathematics, Statistics, Physics and Chemistry and Departments imparting education in Allied Areas etc.
- c) They should have separate building/space for the following components:
 - Two independent laboratories for practicals to accommodate minimum 20-30 students at a time.
 - Two lecture halls/rooms for theory classes with the capacity of 30-40 students at a time.
 - One store room and one library room in the Department.
 - One Head of the Department/Coordinator Room and 6 Rooms for other core faculty members.
 - One seminar/conference room.
 - Supporting staff like laboratory assistants/attendants, LDC/UDC/Stenographer, Peon etc.

2. Syllabus must be aligned with the model course curriculum developed by DBT/Statutory body and in accordance with the expertise of the core/collaborating faculty.

3. Admission of the students will be made through All India Combined Entrance Examination i.e. GAT-B only.

4. Other terms and conditions of the grant support will be communicated with the approval letter of the programme if selected.
5. Overall progress of programme will be monitored by two tier mechanism i.e. in-house annual advisory committee comprising of outside experts from teaching institutions, industries, in-house faculty and DBT Expert Steering Committee.
6. Support can be withdrawn from Universities/Institutions under following conditions:
 - If the total number of students admitted in a particular academic session is less than 50% of its intake.
 - If the core faculty strength is less than 6.
 - Any administrative difficulties in running programme.
 - Delay in implementation of the program.
 - Unable to impart quality teaching and training to students based on their feedback to DBT.

Financial Support: Department is providing financial support for running postgraduate teaching programmes based on the number of students admitted in a particular program/academic session. This funding pattern has evolved during the last 36 years based on the need of support for academic programs and feedback of stakeholders. Department is providing financial support under the following heads:

- **Non Recurring:** Equipments essentially required for class room teaching and practical training as per DBT Model Course Curriculum.
- **Recurring:** As per students intake.

Faculty Support: Department may consider the request for faculty support under following circumstances:

- (1) Requirement of faculty for emerging scientific domain/areas for teaching and advancement of R&D activities
- (2) Faculty support may be considered minimum for a period of 3 years and maximum 5 years provided. University submits the written commitment to take over all the faculty positions as regular faculty before the end of DBT support or continue the positions within their own resources.
- (3) DBT faculty appointed should be eligible for all the benefits as provided to regular faculty of University/Institutes.
- (4) Positions should be advertised in National dailies for inviting applications for recruitment of DBT supported faculty positions.
- (5) Separate MoA will be signed between DBT and University/Institute/Organization for faculty support.

**POFORMA FOR SUBMISSION OF PROPOSAL FOR POSTGRADUATE TEACHING
PROGRAM (M.SC./M.TECH.) IN BIOTECHNOLOGY**

UNDER HUMAN RESOURCE DEVELOPMENT PROGRAMME

1 copy back-to-back print & soft cover page forwarded through the executive authority/Head of the University/institute/Organization should be sent to:

Dr. Manoj Singh Rohilla
Scientist-‘E’
HRD Division
Department of Biotechnology
Block 2, 6th Floor, Room No. 613
CGO Complex, Lodi Road
New Delhi-110003
Email: manojisrohilla.dbt@nic.in

1.	Name of the Institute/ University	:	
2.	Name of the Degree	:	
3.	Duration of the Course	:	
4.	Objectives of the programme	:	
5.	Number of seats per year (Minimum and Maximum)	:	
6.	Justification for starting the Programme and requirement of DBT support	:	
7.	Total Project cost of the Programme for 5 Years	:	
8.	The major areas of Teaching/Training (in-house Dissertation).	:	
9.	Mode of selection of students	:	GAT-B
10.	Eligibility for admission of students	:	
11.	Names of the Departments proposed to be collaborating in the Programme (The programme is envisaged to be collaborative, interdepartmental)	:	
12.	Name, designation, field of specialization of faculty members of participating departments in the institution and list of major publications in the last five years in	:	

	the field of biotechnology.		
13.	List of existing major equipments and infrastructure facilities including laboratory and class room space.	:	
14.	Major Research grants received	:	
15.	Facility for Students: (A) Hostel Facility (B) Placement Cell	:	
16.	Incubators set up by University for Entrepreneurship Development	:	
17.	University Ranking (A) NAAC (B) NIRF (C) Global Ranking	:	
18.	Nearby institutions engaged in Biotechnology research and teaching.	:	
19.	Linkage with nearby Industry engaged in Biotechnology R&D for Students Skill Training (Summer/Winter Training) as per Standards of concerned Sector Skill Councils.	:	
20.	Semester-wise course content with Learning outcome (Please enclose details as per Annexure-I).	:	
21.	Financial assistance (Recurring and Non-recurring) required for Program (Please enclose break-up of funds required under different heads year wise with full justification)	:	
22.	Fee structure/student/semester (Including all Charges-Tuition Fee)	:	
23.	Academic Calendar (enclose Copy of University/Institute Notification)	:	
24.	Name of the coordinating Department (Mode of disbursement of studentship to be clearly defined)	:	

25.	<p>Name and full address of the Course coordinator with Telephone Nos. (office and residence), Telex, Fax, e-mail etc.</p> <p>Name and full address of the Vice-Chancellor/ Director with Telephone Nos. (office and residence), Telex, Fax, email etc.</p>	:	
-----	--	---	--

Signature of the Head of the Institute/University (Director/Registrar) with Stamp	Signature of the Program Coordinator with Stamp
--	--

Details of the Collaborative Department Proposed for Teaching and Training in Biotechnology

S. No.	Name of Department	Name and Address of Head of the Department	Faculty Details (Name and designation) *	Written Consent Enclosed (Yes/No)

* Enclose written consent of individual faculty members of collaborative Departments for participation in proposed Teaching and Training Program (M.Sc./M.Tech. Program) in Biotechnology.

Learning outcome: As per DBT Model Course Curriculum:

S. No.	Semester	Theory and Practical Paper Code and Title	Hands on Skill Set Proposed to be Provided to Students	Generation of New Knowledge Globally Recognized	Entrepreneurship Skills to be Imparted as applicable during the course to cover the innovation, IPR and Regulatory framework

**STATE/UTs WISE LIST OF POSTGRADUATE TEACHING PROGRAM SELECTED BY
DEPARTMENT OF BIOTECHNOLOGY FOR SUPPORT DURING 15TH FINANCE COMMISSION**

S. No.	Name of University/Institute	Program
	ASSAM	
1.	College of Veterinary Science, Assam Agricultural University, Assam	M.V.Sc. Animal Biotechnology
2.	Indian Institute of Technology, Guwahati	M. Tech. Biotechnology
3.	Assam Agricultural University, Jorhat	M.Sc. Agriculture Biotechnology
4.	Tezpur University	M.Sc. Biotechnology
	CHHATTISGARH	
5.	Indira Gandhi Agricultural University, Raipur	M.Sc. Agriculture Biotechnology
6.	Guru Ghasidas Vishwavidyalaya, Bilaspur	M.Sc. Biotechnology
	DELHI	
7.	Jawaharlal Nehru University, New Delhi	M.Sc. Biotechnology
8.	Jawaharlal Nehru University, New Delhi	M.Sc. Computational & Integrative Science
9.	All India Institute of Medical Sciences, New Delhi	M.Sc. Medical Biotechnology
10.	Indraprastha Institute of Information Technology Delhi	M.Tech. Computational Biology
	GOA	
11.	Goa University, Goa	M.Sc. Marine Biotechnology
	GUJARAT	
12.	Maharaja Sayajirao University of Baroda, Baroda	M.Sc. Biotechnology
13.	Institute of Advanced Research (IAR), Gandhinagar	M.Sc. Biotechnology
	HARYANA	
14.	Guru Jambheshwar University of Science & Technology, Hisar	M.Sc. Biotechnology
15.	Amity University, Gurgaon Haryana	M.Sc. Biotechnology
	HIMACHAL PRADESH	
16.	Himachal Pradesh University, Shimla	M.Sc. Biotechnology
17.	Jaypee University of Informaton Technology, Solan	M.Sc. Biotechnology
	JAMMU & KASHMIR	
18.	Baba Ghulam Shah Badshah University Rajouri, J&K	M.Sc. Bioresource Biotechnology
19.	Central University of Jammu, Jammu	M.Sc. Biotechnology
20.	University of Kashmir, Srinagar	M.Sc. Biotechnology
21.	University of Jammu, Jammu	M.Sc. Biotechnology
22.	Shri Mata Vaishno Devi University, Katra	M.Sc. Biotechnology
	KARNATAKA	
23.	Nitte (Deemed to be University), Mangalore	M.Sc. Marine Biotechnology
24.	University of Agricultural Sciences, Dharwad	M.Sc. Agriculture Biotechnology
25.	University of Agricultural Science, Bangalore	M.Sc. Agriculture Biotechnology
26.	University of Mysore, Mysore	M.Sc. Biotechnology

	KERALA	
27.	Rajiv Gandhi Centre for Biotechnology (RGCB), Thiruvananthapuram	M.Sc. Biotechnology
28.	Kerala Agricultural University, Thrissur	M.Sc. Agriculture Biotechnology
29.	Cochin University of Science & Technology, Kochi	M.Tech. Marine Biotechnology
	MADHYA PRADESH	
30.	Indian Institute of Technology Indore, Indore	M.Sc. Biotechnology
	MAHARASHTRA	
31.	Institute of Chemical Technology, Mumbai	M. Tech. Pharmaceutical Biotechnology
32.	Institute of Chemical Technology, Mumbai	M. Tech. Food Biotechnology
33.	Institute of Chemical Technology, Mumbai	M.Tech. Bioprocess Technology
34.	Savitribai Phule Pune University	M.Sc. Bioinformatics
35.	Vasant Rao Naik Maratwada Krishi Vidyapeeth, Parbhani	M.Sc. Agriculture Biotechnology
36.	Indian Institute of Technology Bombay, Mumbai	M.Sc. Biotechnology
37.	Savitribai Phule Pune University, Pune	M.Sc. Biotechnology
	MEGHALAYA	
38.	North Eastern Hill University, Shillong	M.Sc. Biotechnology
	ODISHA	
39.	Utkal University, Bhubaneswar	M.Sc. Biotechnology
40.	Berhampur University, Berhampur	M.Sc. Biotechnology
41.	Rama Devi Women's University, Bhubaneswar	M.Sc. Biotechnology
42.	GIET University, Gunupur	M.Sc. Biotechnology
	PUDUCHERRY	
43.	Pondicherry University, Puducherry	M.Sc. Biotechnology
44.	Pondicherry University, Puducherry	M.Tech. Computational Biology
	PUNJAB	
45.	National Institute of Pharmaceutical Education and Research (NIPER), Mohali	M. Tech. Pharmaceutical Biotechnology
46.	PGIMER, Chandigarh	M.Sc. Medical Biotechnology
47.	Punjab Agricultural University	M.Sc. Biotechnology
48.	Guru Nanak Dev University, Amritsar	M.Sc. Biotechnology
49.	Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana	M.Sc. Biotechnology
	RAJASTHAN	
50.	Banasthali Vidyapeeth, Banasthali	M.Sc. Biotechnology
51.	Central University of Rajasthan, Ajmer	M.Sc. Biotechnology
	TAMIL NADU	

52.	K. S. Rangasamy College of Technology, Tiruchengode	M. Tech. Biotechnology
53.	Anna University, Chennai	M. Tech. Biotechnology
54.	Anna University, Chennai	M.Tech Computational Biology
55.	Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai	M.Tech. Biotechnology
56.	Bharathiar University, Coimbatore	M.Sc. Medical Biotechnology
57.	Tamil Nadu Agricultural University	M.Sc. Agriculture Biotechnology
58.	Madurai Kamaraj University, Madurai	M.Sc. Biotechnology
59.	National College, Tiruchirapalli	M.Sc. Biotechnology
60.	Alagappa University, Karaikudi	M. Sc. Biotechnology
	TELANGANA	
61.	University of Hyderabad, Hyderabad	M.Sc. Biotechnology
62.	Osmania University, Hyderabad	M.Sc. Molecular & Human Genetics
	UTTAR PRADESH	
63.	Banaras Hindu University, Varanasi	M.Sc. Molecular & Human Genetics
64.	Banaras Hindu University, Varanasi	M.Sc. Biotechnology
65.	Gautam Buddha University, Noida	M.Sc. Biotechnology
	UTTARAKHAND	
66.	Indian Institute of Technology, Roorkee	M.Sc. Biotechnology
67.	Govind Ballabh Pant University of Agriculture and Technology, Pantnagar	M.Sc. Agriculture Biotechnology
	WEST BENGAL	
68.	Indian Institute of Technology, Kharagpur	M.Tech. Biotechnology & Biochemical Engineering
69.	Maulana Abul Kalam Azad University of Technology, West Bengal (West Bengal University)	M.Tech. Biotechnology
70.	Visva-Bharati University, Santiniketan	M.Sc. Biotechnology
