



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

Skill Development Program in Biotechnology

(1) Title of Program: “Post Graduate Certificate/Diploma Program in Medical Biotechnology/ Agricultural Biotechnology/Computational Biology for Skill Development”.

(2) Objective: The objective of the program is to provide high quality *hands-on* training in tools and techniques in areas of Medical Biotechnology, Agricultural Biotechnology and Computational Biology for skill development.

(3) Eligibility: As per concerned University/ Institute norms

(4) Selection of Students: National Level Written Test to be conducted by concerned University/Institute.

(5) Reservation Policy: As per GOI Guidelines.

(6) Role of DBT: DBT will provide financial support initially for three years.

(7) Who can apply: Central/State Universities/R&D Laboratories/Medical Colleges/Hospital having facilities for teaching and training programs and approved/recognized by statutory body can submit their proposals for financial support for starting courses/ support to existing courses in following areas:

(A) Medical Biotechnology:

- (i) Genetic Counselling with special emphasis on Prenatal and Postnatal Diagnosis.
- (ii) Molecular Diagnosis with special emphasis on Infectious Diseases, Quality Control and Assurance.
- (iii) Quality Control and Testing of Recombinant Drugs/Products and Biosimilars.
- (iv) Bio-Preservation, Biobanking and Downstream Applications with special emphasis on Stem Cells/Cord Blood Cells Banking and Applications.
- (v) Clinical Embryology with special emphasis on Micromanipulation Techniques (IVF and ICSI).

(B) Agriculture Biotechnology:

(i) Quality Assurance and Testing of Agricultural Products with special emphasis on Recombinant Seed Testing, Tissue Culture raised Plant Materials, Dairy, Poultry and Fish Products etc.

(C) Computational Biology:

(i) Analytical Methods and Quality Assurance in DNA/Protein Sequencing.

(ii) Applications of Computational Biology: Big Data Analytics and Management with emphasis on Health Care, Drug Discovery and Clinical Trials etc.

(8) Submission of Proposal: Proposal for financial assistance for starting full time Post Graduate Certificate/ Diploma program in area of Medical Biotechnology/ Agricultural Biotechnology/ Computational Biology” courses should be submitted in enclosed DBT format (10 copies back-to-back print & soft cover page) forwarded through the Head of the Institution/University/R&D Laboratories/Medical College/Hospital. Copies should be sent to:

Dr. Manoj Singh Rohilla
Scientist-'D'
Department of Biotechnology
Block 2, 6th Floor, Room No. 613
CGO Complex, Lodi Road
New Delhi-110003

(9) Review of Progress of Program: Overall progress of program will be monitored by in-house annual advisory committee comprising of outside experts from teaching institutions and industries, course coordinators meeting and DBT-HRD Task Force.

Guidelines:

- 1) Government Institutions and Institutions recognized by UGC, AICTE, MCI are eligible for submission of proposal.
- 2) Preconditions to get financial support from the Department of Biotechnology for post-graduate “Certificate/Diploma courses in area of Medical Biotechnology/ Agricultural Biotechnology /Computational Biology:
 - (a) University/Institution/R&D Laboratory/Hospital/Medical College should have minimum 4-5 core faculty/scientists dedicated for the proposed Biotechnology course for skill development. Out of these 4-5 core faculty, minimum 2 should be Biotechnologist either by qualification or by research publications during last 5 years.
 - (b) In addition to core faculty in coordinating department, there should be minimum 2 collaborating faculty from other departments.
