

# INFORMATION BROCHURE For Online Industrial Training



## Online Industrial Training in Advance Molecular Biology & r-DNA Technology



**Helix BioGenesis Pvt. Ltd.**  
**D-34, Sector-2, Noida**  
**+91-9717117289**

### **About Helix BioGenesis Pvt. Ltd.:**

**Helix BioGenesis (A unit of Helix BioGenesis Pvt. Ltd.)**, a fast growing **ISO 9001:2008 certified** company engaged in the field of Biotechnology/ Medical Diagnostics Research and Live Project based Training situated in Noida. Currently, Helix BioGenesis undertakes research in the frontier areas of Molecular biology, Microbiology, Immunology, Medical biotech and Diagnostic services. We have developed 15 days to 6 months Hands-on Industrial Training/ Project/ Dissertation Work and Summer & Winter Training Programs for the students of any field of Biotechnology/Life Sciences and Medical Biotechnology. This is a rigorous and comprehensive Industrial Training designed and developed for those with basic knowledge of Biotechnology, and looking for a career in Biotech and Pharmaceuticals sector as well as in research organizations in India and abroad.

This training will prepare the candidates for a brighter future in biotechnology by providing knowledge & experience in advanced technologies currently being employed in research. It will also help the candidates in designing of experiments, formulating project protocols, together with hands-on-training in advanced techniques in molecular biology & r-DNA technology, biotechnology, and drug discovery. Actual data from the research laboratories will be discussed, and a comprehensive protocol booklet will be provided to each trainee for future reference.

### **Online Industrial Training Programs/ Modules Details:**

Course Name	Duration*	Fee (INR)
Advance Molecular Biology & r-DNA Technology	30Days/ 4 weeks	3500/-

- Study material/ Protocol booklet will be provided to trainees for each Lab work. **Industrial Training Certificate will be provided to every student on last day of the training.**
- For detailed information on batch in a particular month please contact office on 9717117289.

### **Eligibility Criteria:**

The candidates who have completed/pursuing their B.Sc., B.Tech., M.Sc., M.Tech., M.Phil. and Ph.D. in any field of Biotechnology/Life Sciences and Medical Biotechnology stream from a recognized University are eligible to apply. Selection will be purely on “First Come, First Serve Basis”.

### **Application Procedure:**

1. **Fill the application form <https://forms.gle/sUPoCzwREM4AATh47>**
2. Transfer fee through NEFT/Online banking or by using Paytm (Paytm No. 9717117289) the following account and send us a copy of receipt of transfer (with UTR No.) along with scanned copy of application form. We will contact you after receiving your application form and will confirm/ register your seat for batch and program of your choice.

While doing the online payment, please use the following details

**Payee Name:** Helix Biogenesis Pvt Ltd; **Account Number:** 003105029384

**Type:** Current Account; **Bank Name:** ICICI Bank; **IFSC Code:** ICIC0000031

**Branch Address:** Sector-18, Noida.

3. For further assistance, please contact our office or email us at “helix.noida@gmail.com”.

## **TRAINING PROGRAM DETAILS**

### **Advance Molecular Biology & r-DNA Technology (30 Days/4 Weeks)**

1. Working in Molecular Biology Laboratory	17. Purification & Quantification of RNA
2. Good Laboratory Practices and General Safety Instructions	18. Quantitative analysis of Nucleic Acids using DPA reagent
3. Basics of Calculations; Buffers and Reagent Preparation	19. Qualitative (A260/280) & Quantitative analysis of Nucleic Acids using Nanodrop/Qubit 2.0
4. Sterilization Techniques: Dry, Wet and Chemical	
5. Isolation and Purification of Bacterial Genomic DNA	20. Primer Designing and Optimization of PCR
6. Agarose Gel Electrophoresis of Genomic DNA	21. Polymerase Chain Reaction (PCR)
7. Preparation of Luria Bertani Media and it's Sterilization	22. Gel Electrophoresis of PCR Products with Molecular Markers
8. Culturing of Microbes ( <i>E. coli</i> DH5 $\alpha$ Strain for Plasmid DNA Isolation)	23. Restriction Digestion of DNA
9. Isolation & Purification of Plasmid DNA from <i>E. coli</i> DH5 $\alpha$ Strain	24. Electrophoresis of Digested DNA Product
10. Agarose Gel Electrophoresis of Isolated Plasmid DNA	25. Southern Blotting Technique (Transfer of DNA to Membrane)
11. Determination of Purity and Quantification of Isolated Plasmid DNA	26. Competent Cell Preparation of <i>E. coli</i>
12. Isolation & Purification of Genomic DNA from Plants	27. cDNA Preparation and Cloning
13. Agarose Gel Electrophoresis of Isolated Plant Genomic DNA	28. Cloning of cDNA into Digested Plasmid (cDNA Ligation)
14. RNA Isolation from Plant Sources	29. Transformation of Ligated Plasmid into Competent Cells
15. Denaturing Agarose Gel Electrophoresis of Isolated RNA	30. Screening of the Transformed Cells (Blue-White selection)
16. Northern Blotting Technique (RNA from Gel to membrane)	31. Colony PCR for Screening of Transformed Cells



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