



## Microbiology Industrial Training Program

The Industrial Training Program covers essential industrial skills, focusing on practical techniques, workflow optimization, and tools used across various industrial applications, from biotechnology to environmental science.

**Note: Below modules are designed keeping high end industrial professionals into consideration. Please refer individual protocols below for affordable prices.**

### Biotechnology and Bioprocessing

**Kindly review the fees outlined for the individual protocols listed in this module.**

- Enzyme production and purification techniques
- Bioreactor design and scale-up for production
- Quality assurance and regulatory compliance in bioprocessing
- Downstream processing and product refinement

### Pharmaceutical and Clinical Manufacturing

**Kindly review the fees outlined for the individual protocols listed in this module.**

- Aseptic processing and contamination control
- Pharmacovigilance and product quality control
- Formulation and dosage design techniques
- Clinical trials and production documentation standards

### Environmental Technology and Bioremediation

**Kindly review the fees outlined for the individual protocols listed in this module.**

- Soil and groundwater bioremediation methods
- Biofilm engineering for pollutant breakdown
- Heavy metal biotransformation by microbes

- Environmental impact assessment protocols

## **Industrial Microbiology**

**Kindly review the fees outlined for the individual protocols listed in this module.**

- Metabolic engineering for enhanced production
- Fermentation process monitoring and optimization
- Microbial inoculants for agriculture and waste treatment
- Product yield improvement techniques

## **Food and Beverage Industry**

**Kindly review the fees outlined for the individual protocols listed in this module.**

- Fermentation techniques in food production
- Quality control in food microbiology
- Packaging and preservation methods
- Shelf life testing and stability studies

## **Agriculture and Soil Science**

**Kindly review the fees outlined for the individual protocols listed in this module.**

- Biofertilizer production and quality testing
- Plant-microbe interactions for crop enhancement
- Integrated pest management with biocontrol agents
- Sustainable agriculture practices

## **Chemical and Petrochemical Industries**

**Kindly review the fees outlined for the individual protocols listed in this module.**

- Chemical process modeling and simulation
- Safety protocols and hazardous material handling
- Waste management in chemical industries
- Energy-efficient process engineering

## Instrumentation and Quality Control

**Kindly review the fees outlined for the individual protocols listed in this module.**

- Standard operating procedures (SOPs) for equipment
- In-line quality testing and data logging
- Validation and verification protocols in manufacturing
- Statistical process control (SPC) techniques

## Data Analysis and Process Optimization

**Kindly review the fees outlined for the individual protocols listed in this module.**

- Process simulation and optimization using software tools
- Lean manufacturing principles
- Predictive maintenance using machine learning
- Six Sigma methodologies for quality improvement

## Safety and Compliance

**Kindly review the fees outlined for the individual protocols listed in this module.**

- Hazard analysis and critical control points (HACCP)
- Industrial hygiene practices
- Regulatory compliance and documentation
- Emergency response and first-aid protocols

## Individual Protocols Under Microbiology Industrial Training Program

1. Fermentation technology and process optimization | **Fee: Contact for fee**
2. Enzyme production and purification techniques | **Fee: Contact for fee**
3. Bioreactor design and scale-up for production | **Fee: Contact for fee**
4. Quality assurance and regulatory compliance in bioprocessing | **Fee: Contact for fee**
5. Downstream processing and product refinement | **Fee: Contact for fee**
6. Good Manufacturing Practices (GMP) for pharmaceuticals | **Fee: Contact for fee**
7. Aseptic processing and contamination control | **Fee: Contact for fee**
8. Pharmacovigilance and product quality control | **Fee: Contact for fee**

9. Formulation and dosage design techniques | **Fee: Contact for fee**
10. Clinical trials and production documentation standards | **Fee: Contact for fee**
11. Techniques in industrial wastewater treatment | **Fee: Contact for fee**
12. Soil and groundwater bioremediation methods | **Fee: Contact for fee**
13. Biofilm engineering for pollutant breakdown | **Fee: Contact for fee**
14. Heavy metal biotransformation by microbes | **Fee: Contact for fee**
15. Environmental impact assessment protocols | **Fee: Contact for fee**
16. Microbial culture techniques for large-scale production | **Fee: Contact for fee**
17. Metabolic engineering for enhanced production | **Fee: Contact for fee**
18. Fermentation process monitoring and optimization | **Fee: Contact for fee**
19. Microbial inoculants for agriculture and waste treatment | **Fee: Contact for fee**
20. Product yield improvement techniques | **Fee: Contact for fee**
21. Food safety standards and HACCP protocols | **Fee: Contact for fee**
22. Fermentation techniques in food production | **Fee: Contact for fee**
23. Quality control in food microbiology | **Fee: Contact for fee**
24. Packaging and preservation methods | **Fee: Contact for fee**
25. Shelf life testing and stability studies | **Fee: Contact for fee**
26. Soil testing and nutrient analysis | **Fee: Contact for fee**
27. Biofertilizer production and quality testing | **Fee: Contact for fee**
28. Plant-microbe interactions for crop enhancement | **Fee: Contact for fee**
29. Integrated pest management with biocontrol agents | **Fee: Contact for fee**
30. Sustainable agriculture practices | **Fee: Contact for fee**
31. Catalyst design and optimization | **Fee: Contact for fee**
32. Chemical process modeling and simulation | **Fee: Contact for fee**
33. Safety protocols and hazardous material handling | **Fee: Contact for fee**
34. Waste management in chemical industries | **Fee: Contact for fee**
35. Energy-efficient process engineering | **Fee: Contact for fee**
36. Analytical instrument calibration and maintenance | **Fee: Contact for fee**
37. Standard operating procedures (SOPs) for equipment | **Fee: Contact for fee**
38. In-line quality testing and data logging | **Fee: Contact for fee**
39. Validation and verification protocols in manufacturing | **Fee: Contact for fee**
40. Statistical process control (SPC) techniques | **Fee: Contact for fee**
41. Data-driven decision making in industrial processes | **Fee: Contact for fee**
42. Process simulation and optimization using software tools | **Fee: Contact for fee**
43. Lean manufacturing principles | **Fee: Contact for fee**
44. Predictive maintenance using machine learning | **Fee: Contact for fee**
45. Six Sigma methodologies for quality improvement | **Fee: Contact for fee**
46. Workplace safety protocols and risk assessment | **Fee: Contact for fee**
47. Hazard analysis and critical control points (HACCP) | **Fee: Contact for fee**
48. Industrial hygiene practices | **Fee: Contact for fee**
49. Regulatory compliance and documentation | **Fee: Contact for fee**
50. Emergency response and first-aid protocols | **Fee: Contact for fee**

NTHRYS OPC PVT LTD Microbiology Industrial Training Program

**Please contact on +91-8977624748 for more details**

Cant Come to Hyderabad? No Problem, You can do it in Virtual / Online Mode