



## NTHRYS WORKSHOPS

# Advanced Techniques In Environmental Biotechnology

### 8:45 AM - 10:15 AM: Session 1: Genetically Engineered Microorganisms (GEMs)

Introduction to the use of GEMs in environmental biotechnology.  
Hands-on session on engineering microbes for specific tasks.  
Practical demonstration of using GEMs in bioremediation.

### 10:15 AM - 10:30 AM: Coffee / Tea / Snacks Break

Networking and refreshments.

### 10:30 AM - 12:00 PM: Session 2: Bioenergy and Biofuels

Exploring the production of bioenergy and biofuels.  
Workshop on using biomass for energy generation.  
Case studies on sustainable biofuel projects.

### 12:00 PM - 1:00 PM: Lunch Break

Catered lunch and networking opportunity.

### **1:00 PM - 2:30 PM: Session 3: Environmental Genomics and Metagenomics**

Hands-on session on genomics approaches in environmental biotechnology.  
Exploring sequencing technologies for environmental samples.  
Case studies on metagenomic applications in environmental research.

### **2:30 PM - 2:45 PM: Short Break**

Time for a stretch and informal discussions.

### **2:45 PM - 4:15 PM: Session 4: Industrial Waste Treatment**

Workshop on biotechnological approaches to industrial waste treatment.  
Practical techniques for treating and managing industrial effluents.  
Case studies on successful industrial waste treatment projects.

### **4:15 PM - 4:30 PM: Coffee / Tea / Snacks Break**

Last networking opportunity with snacks.

### **4:30 PM - 5:30 PM: Closing Session: Implementing Changes and Technology Adoption**

Group discussions on implementing new techniques learned today.  
Dialogue on overcoming challenges in adopting new technologies in similar sectors.  
Feedback session and closing remarks.

Certificate Issue

### **5:30 PM: Workshop Concludes**