



## NTHRYS WORKSHOPS

# Introduction To Geo Biotechnology

### 8:45 AM - 10:15 AM: Session 1: Basics of Geo Biotechnology

Overview of geo biotechnology principles and applications.  
Hands-on session on microbial techniques for soil and rock analysis.  
Introduction to the importance of geo biotechnology in environmental science.

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

Networking and refreshments.

### 10:30 AM - 12:00 PM: Session 2: Microbial Interactions with Minerals

Interactive session on the interactions between microbes and minerals.  
Workshop on techniques for studying biogeochemical cycles.  
Practical demonstration of mineral-microbe interactions.

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

Catered lunch and networking opportunity.

### 1:00 PM - 2:30 PM: Session 3: Bioleaching and Bioremediation

Exploring techniques for bioleaching and bioremediation.

Hands-on training on using microbes to extract metals and clean up pollutants.  
Case studies on the applications of geo biotechnology in mining and environmental cleanup.

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

Time for a stretch and informal discussions.

### **2:45 PM - 4:15 PM: Session 4: Geomicrobiology in Extreme Environments**

Workshop on the study of geomicrobiology in extreme environments.  
Practical techniques for isolating and studying extremophiles.  
Case studies on the role of extremophiles in geo biotechnology.

### **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**