



## NTHRYS WORKSHOPS

# Microbial Bioremediation For Space Habitats

### 8:45 AM - 10:15 AM: Session 1: Microbial Degradation of Space Contaminants

Practical session on microbial degradation of contaminants in space habitats. Protocols for using microbes to break down hazardous chemicals and waste in closed space environments.

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

Networking and refreshments.

### 10:30 AM - 12:00 PM: Session 2: Microbial Recycling of Waste for Resource Recovery

Hands-on training on microbial recycling systems. Protocols for converting waste materials into usable resources, such as oxygen and water, using microbial processes.

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

Catered lunch and networking opportunity.

### **1:00 PM - 2:30 PM: Session 3: Microbial Bioremediation of Air Contaminants**

Practical session on using microbes to clean the air in space habitats.  
Protocols for removing volatile organic compounds (VOCs) and other contaminants from the air using bioreactors.

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

Time for a stretch and informal discussions.

### **2:45 PM - 4:15 PM: Session 4: Biofilters for Wastewater Treatment in Space**

Hands-on workshop on designing biofilters for wastewater treatment in space habitats.  
Protocols for constructing and optimizing biofilters for recycling wastewater into potable water.

### **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**