



## NTHRYS WORKSHOPS

# Advanced Techniques In Bioinorganic Chemistry

### 8:45 AM - 10:15 AM: Session 1: Spectroscopic Techniques

Introduction to spectroscopic techniques used in bioinorganic chemistry. Practical demonstration of UV-Vis, EPR, and NMR spectroscopy.

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

Networking and refreshments.

### 10:30 AM - 12:00 PM: Session 2: X-ray Crystallography

Overview of X-ray crystallography and its applications. Hands-on workshop on solving the structures of metalloproteins using X-ray crystallography.

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

Catered lunch and networking opportunity.

### 1:00 PM - 2:30 PM: Session 3: Bioinorganic Reaction Mechanisms

Introduction to reaction mechanisms in bioinorganic chemistry.

Practical session on studying catalytic cycles and reaction intermediates.

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

Time for a stretch and informal discussions.

### **2:45 PM - 4:15 PM: Session 4: Bioinorganic Chemistry in Medicine**

Discussion on the role of bioinorganic chemistry in medicine.  
Case studies on the development of metal-based drugs and diagnostics.

### **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**