



## NTHRYS WORKSHOPS

# Introduction To Molecular Bioengineering

### 8:45 AM - 10:15 AM: Session 1: Basics of Molecular Bioengineering

Overview of molecular bioengineering principles and applications.  
Hands-on session on studying and manipulating biological molecules.  
Introduction to the importance of molecular bioengineering in biotechnology.

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

Networking and refreshments.

### 10:30 AM - 12:00 PM: Session 2: Genetic Engineering Techniques

Interactive session on genetic engineering techniques.  
Workshop on using CRISPR, TALENs, and other tools for gene editing.  
Practical demonstration of genetic modification methods.

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

Catered lunch and networking opportunity.

### 1:00 PM - 2:30 PM: Session 3: Synthetic Biology

Exploring synthetic biology and its applications.

Hands-on training on designing and constructing synthetic biological systems.  
Case studies on the role of synthetic biology in developing new biotechnologies.

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

Time for a stretch and informal discussions.

### **2:45 PM - 4:15 PM: Session 4: Protein Engineering**

Workshop on protein engineering techniques.  
Practical techniques for designing and modifying proteins.  
Case studies on the applications of protein engineering in industry and research.

### **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**