

## Biological Engineering Workshops

# Biological Engineering Workshops

NTHRYS BIOTECH LABS provides a diverse array of workshops in the realm of Biological Engineering. Explore our comprehensive offerings below

[Biological Engineering Workshops Application Process](#)

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## Embark on a Biological Engineering Adventure: Find the Perfect Workshop!

1. [Workshop in Introduction to Biological EngineeringPDF](#)
2. [Workshop in Advanced Techniques in Biological EngineeringPDF](#)
3. [Workshop in Emerging Trends in Biological EngineeringPDF](#)

### 1. Workshop in Introduction to Biological Engineering

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**Date:** Pre Selected Date

**Fee:** Rs 6000/-

**Duration:** One Day

**Mode:** Offline and Virtual

**Location for Offline:** NBL Cherlapalli IDA Branch

**Facilitator(s):** NTHRYS TEAM

### **8:00 AM - 8:30 AM: Registration and Welcome Coffee**

Participants arrive, register, and network over coffee.

### **8:30 AM - 8:45 AM: Opening Remarks**

Welcome by the host.

Brief overview of today's focus.

### **8:45 AM - 10:15 AM: Session 1: Basics of Biological Engineering**

Overview of biological engineering and its significance.

Introduction to principles and applications in biological systems.

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

Networking and refreshments.

### **10:30 AM - 12:00 PM: Session 2: Biomaterials and Biofabrication**

Hands-on training on biomaterials and biofabrication techniques.

Practical session on designing and producing biomaterials for engineering applications.

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

Catered lunch and networking opportunity.

### **1:00 PM - 2:30 PM: Session 3: Bioreactors and Bioprocessing**

Overview of bioreactor design and bioprocessing.

Practical exercises on setting up and optimizing bioreactors for biological production.

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

Time for a stretch and informal discussions.

### **2:45 PM - 4:15 PM: Session 4: Case Studies in Biological Engineering**

Discussion on real-world case studies in biological engineering.

Analysis of successful projects in healthcare, agriculture, and industry.

**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**

## **2. Workshop in Advanced Techniques in Biological Engineering**

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**Date:** Pre Selected Date

**Fee:** Rs 6000/-

**Duration:** One Day

**Mode:** Offline and Virtual

**Location for Offline:** NBL Cherlapalli IDA Branch

**Facilitator(s):** NTHRYS TEAM

**8:00 AM - 8:30 AM: Registration and Welcome Coffee**

Participants arrive, register, and network over coffee.

**8:30 AM - 8:45 AM: Opening Remarks**

Welcome by the host.

Brief overview of today's focus.

**8:45 AM - 10:15 AM: Session 1: Genetic and Cellular Engineering**

Introduction to advanced genetic and cellular engineering techniques.

Practical demonstration of CRISPR, gene editing, and stem cell technologies.

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

Networking and refreshments.

**10:30 AM - 12:00 PM: Session 2: Bioinformatics and Systems Biology**

Overview of bioinformatics and systems biology tools.

Hands-on workshop on modeling biological systems and analyzing large-scale biological data.

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

Catered lunch and networking opportunity.

**1:00 PM - 2:30 PM: Session 3: Tissue Engineering and Regenerative Medicine**

Introduction to tissue engineering and regenerative medicine.

Practical session on scaffold fabrication, cell culture, and tissue regeneration techniques.

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

Time for a stretch and informal discussions.

**2:45 PM - 4:15 PM: Session 4: Biomechanics and Biorobotics**

Discussion on biomechanics and biorobotics.

Case studies on the design and application of robotic systems in biological engineering.

**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**

### **3. Workshop in Emerging Trends in Biological Engineering**

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**Date:** Pre Selected Date

**Fee:** Rs 6000/-

**Duration:** One Day

**Mode:** Offline and Virtual

**Location for Offline:** NBL Cherlapalli IDA Branch

**Facilitator(s):** NTHRYS TEAM

**8:00 AM - 8:30 AM: Registration and Welcome Coffee**

Participants arrive, register, and network over coffee.

**8:30 AM - 8:45 AM: Opening Remarks**

Welcome by the host.

Brief overview of today's focus.

**8:45 AM - 10:15 AM: Session 1: Synthetic Biology and Bioengineering**

Introduction to synthetic biology and its applications.

Practical session on designing and constructing synthetic biological systems.

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

Networking and refreshments.

**10:30 AM - 12:00 PM: Session 2: Environmental Biological Engineering**

Overview of biological engineering applications in environmental protection.

Hands-on workshop on bioremediation and pollution control technologies.

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

Catered lunch and networking opportunity.

### **1:00 PM - 2:30 PM: Session 3: Innovations in Bioprocessing**

Discussion on recent innovations in bioprocessing.

Practical exercises on optimizing bioprocesses for industrial applications.

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

Time for a stretch and informal discussions.

### **2:45 PM - 4:15 PM: Session 4: Future Directions in Biological Engineering**

Exploration of future trends and innovations in biological engineering.

Case studies on cutting-edge research and its impact on bioengineering practices.

### **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**

Note: NTHRYS Management reserves the right to modify the workshop module at any time without prior notice. Registered or enrolled candidates will receive the module that is current on the day of enrollment.

## **NTHRYS Workshops Department**

**M: +91-7993084748**

**Email: workshops ( a t ) nthrys [ d0t ] com**

## **Biological Engineering Workshops Application Process**

1. Select a workshop from the list.
2. Contact via whatsapp on the number present above to request fee details and dates suitable for joining. Alternatively, you can send an email to workshops ( a t ) nthrys [ d 0 t ] com.
3. Our Workshop department will contact you promptly to provide further assistance.