



Molecular Bioengineering Workshops

Molecular Bioengineering Workshops

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

[Molecular Bioengineering Workshops Application Process](#)

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From Lab to Life: Choose Your Molecular Bioengineering Workshop!

1. [Workshop in Introduction to Molecular BioengineeringPDF](#)
2. [Workshop in Advanced Techniques in Molecular BioengineeringPDF](#)
3. [Workshop in Molecular Bioengineering in Biomedical ResearchPDF](#)
4. [Workshop in Innovations in Molecular BioengineeringPDF](#)
5. [Workshop in Ethical and Regulatory Perspectives in Molecular BioengineeringPDF](#)

1. Workshop in Introduction to Molecular Bioengineering

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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 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

2. Workshop in Advanced Techniques in Molecular Bioengineering

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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: Advanced Molecular Techniques

Introduction to advanced molecular techniques in bioengineering.

Hands-on session on using high-throughput sequencing, mass spectrometry, and other methods.

Practical demonstration of advanced molecular applications.

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

Networking and refreshments.

10:30 AM - 12:00 PM: Session 2: Metabolic Engineering

Exploring metabolic engineering approaches.

Workshop on designing and optimizing metabolic pathways.

Case studies on the applications of metabolic engineering in biofuel and pharmaceutical production.

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

Catered lunch and networking opportunity.

1:00 PM - 2:30 PM: Session 3: Tissue Engineering

Hands-on session on tissue engineering techniques.

Exploring techniques for growing and manipulating tissues in vitro.

Practical applications of tissue engineering in regenerative medicine.

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

Time for a stretch and informal discussions.

2:45 PM - 4:15 PM: Session 4: Bioprocess Engineering

Workshop on bioprocess engineering and scale-up.

Practical techniques for optimizing and scaling up bioprocesses.

Case studies on the role of bioprocess engineering in industrial 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

3. Workshop in Molecular Bioengineering in Biomedical Research

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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: Role of Molecular Bioengineering in Disease Research

Overview of the importance of molecular bioengineering in disease research.

Hands-on session on studying disease mechanisms using bioengineering techniques.

Case studies on the impact of molecular bioengineering in biomedical research.

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

Networking and refreshments.

10:30 AM - 12:00 PM: Session 2: Bioengineering in Cancer Research

Exploring the role of bioengineering in cancer research.

Workshop on using bioengineering techniques to study and treat cancer.
Case studies on the applications of bioengineering in cancer therapy.

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

Catered lunch and networking opportunity.

1:00 PM - 2:30 PM: Session 3: Bioengineering in Infectious Diseases

Hands-on session on the use of bioengineering in studying infectious diseases.
Exploring techniques for developing vaccines and antiviral therapies.
Practical applications of bioengineering in developing treatments for infectious diseases.

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

Time for a stretch and informal discussions.

2:45 PM - 4:15 PM: Session 4: Clinical Applications of Molecular Bioengineering

Workshop on translating bioengineering research into clinical practice.
Practical techniques for using bioengineering data in clinical settings.
Case studies on the impact of molecular bioengineering on medical treatments.

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

4. Workshop in Innovations in Molecular Bioengineering

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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: Emerging Technologies in Molecular Bioengineering

Introduction to emerging technologies in molecular bioengineering.

Hands-on session on using advanced tools and techniques in bioengineering research.

Case studies on innovative applications of new technologies in molecular bioengineering.

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

Networking and refreshments.

10:30 AM - 12:00 PM: Session 2: AI and Machine Learning in Bioengineering

Exploring the role of AI and machine learning in molecular bioengineering.

Workshop on developing predictive models using AI and ML.

Case studies on the applications of AI in enhancing bioengineering research.

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

Catered lunch and networking opportunity.

1:00 PM - 2:30 PM: Session 3: Integrative Omics in Bioengineering

Hands-on session on integrating multi-omics data in molecular bioengineering.
Exploring techniques for combining genomics, proteomics, and metabolomics.
Practical applications of integrative omics in bioengineering research.

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 Molecular Bioengineering

Discussion on emerging trends and future directions in molecular bioengineering.
Workshop on integrating new technologies in bioengineering research.
Case studies on the potential impact of future innovations in molecular bioengineering.

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

5. Workshop in Ethical and Regulatory Perspectives in Molecular Bioengineering

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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: Ethical Considerations in Molecular Bioengineering Research

Overview of ethical issues in molecular bioengineering research.

Case studies on ethical dilemmas in studying and manipulating biological molecules.

Workshop on addressing ethical considerations in molecular bioengineering research.

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

Networking and refreshments.

10:30 AM - 12:00 PM: Session 2: Regulatory Frameworks for Molecular Bioengineering

Exploring regulatory guidelines and requirements for molecular bioengineering research.

Case studies on navigating regulatory challenges.

Workshop on understanding international regulatory frameworks.

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

Catered lunch and networking opportunity.

1:00 PM - 2:30 PM: Session 3: Public Perception and Communication

Workshop on improving public understanding of molecular bioengineering research.

Techniques for effective science communication.

Case studies on public engagement and education initiatives.

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

Time for a stretch and informal discussions.

2:45 PM - 4:15 PM: Session 4: Policy and Planning for Molecular Bioengineering

Discussion on policy and planning for sustainable molecular bioengineering research.

Case studies on effective policies and planning strategies.

Workshop on integrating ethical and social considerations in molecular bioengineering 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

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

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Molecular Bioengineering 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 o t] com.
3. Our Workshop department will contact you promptly to provide further assistance.