Introduction To Molecular Programming

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

Overview of molecular programming principles and applications.
Hands-on session on programming biological molecules to perform specific tasks.
Introduction to the importance of molecular programming in synthetic biology.

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

Networking and refreshments.

10:30 AM - 12:00 PM: Session 2: Techniques in Molecular Programming

Interactive session on techniques used in molecular programming.
Workshop on using DNA nanotechnology, RNA engineering, and other methods.
Practical demonstration of molecular programming techniques.

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

Catered lunch and networking opportunity.

1:00 PM - 2:30 PM: Session 3: Computational Tools in Molecular

Programming

Exploring computational tools in molecular programming.
Hands-on training on using software for designing and simulating molecular programs.
Case studies on the role of computational tools in advancing molecular programming.

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

Time for a stretch and informal discussions.

2:45 PM - 4:15 PM: Session 4: Applications of Molecular Programming

Workshop on applications of molecular programming.
Practical techniques for developing programmable biomaterials and therapeutics.
Case studies on the impact of molecular programming in biotechnology and medicine.

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