Bioorganic Chemistry Summer Internships

Join Bioorganic Chemistry summer internships to study the chemistry of biomolecules, focusing on enzyme mechanisms, biomolecular interactions, and organic synthesis in biological systems.

Focussed Areas under Bioorganic Chemistry Summer Internship

1. Enzyme catalysis in organic synthesis
2. Biomolecular interactions and drug design
3. Organic synthesis of biologically active compounds
4. Mechanistic studies of enzyme reactions
5. Biocatalysis in green chemistry
6. Protein-ligand interactions and their chemical basis
7. Organic molecules in signal transduction
8. Synthesis of natural products and analogs
9. Biochemical pathways and their organic chemistry
10. Design of enzyme inhibitors
11. Organic chemistry in DNA/RNA synthesis
12. Carbohydrate chemistry and biomolecular recognition
13. Synthesis of bioactive peptides
14. Chemical biology approaches to drug discovery
15. Biomolecular NMR and X-ray crystallography
16. Organic chemistry in lipid biology
17. Enzyme engineering for improved catalysis
18. Proteomics and chemical biology interfaces
19. Synthetic biology applications in organic chemistry
20. Bioorthogonal chemistry in living systems

Protocols Covered across various focussed areas under Bioorganic Chemistry Summer Internship

1. Enzyme catalysis assays in organic reactions
2. Protein-ligand interaction analysis using NMR
3. Synthesis of bioactive organic molecules
4. Carbohydrate chemistry and biomolecular recognition studies
5. Mechanistic analysis of enzyme reactions
6. Organic synthesis of peptides and proteins
7. Drug design protocols using chemical biology tools

8. Biocatalysis for sustainable organic synthesis
9. X-ray crystallography for structural biology
10. Enzyme engineering for enhanced catalytic properties

Duration: 5, 10, 15, 20, and 30 Days

Note: Please cross confirm whether internship slots for this field are available before joining.

Click Here for Bioorganic Chemistry Summer Internship Fees

Application Process and Other info