

Bioinorganic Chemistry Summer Internships

Join Bioinorganic Chemistry summer internships to explore the role of metals in biological systems, focusing on metalloproteins, metal-based enzymes, and the interaction of metals with biomolecules.

Focussed Areas under Bioinorganic Chemistry Summer Internship

1. Metals in biological systems
2. Metalloproteins and their functions
3. Metal-based enzymes in agriculture
4. Biomineralization processes in plants and animals
5. Metal ion transport in biological systems
6. Bioavailability of metals in soil and water
7. Iron-sulfur proteins and their roles in metabolism
8. Metals in oxidative stress responses
9. Metal complexes as therapeutics
10. Environmental bioinorganic chemistry
11. Metal-induced toxicity and detoxification pathways
12. Role of zinc and copper in plant metabolism
13. Heavy metal accumulation in plants and microbes
14. Metals in photosynthetic processes
15. Catalytic roles of transition metals in enzymes
16. Bioinorganic chemistry of metalloenzymes
17. Metal-binding proteins in environmental systems
18. Metal ions in signal transduction
19. Inorganic cofactors in enzymatic reactions
20. Metal-based drugs in cancer treatment

Protocols Covered across various focussed areas under Bioinorganic Chemistry Summer Internship

1. Metal ion detection in biological systems
2. Protein structure analysis of metalloproteins
3. Enzyme assays for metal-based catalysis
4. Metal bioavailability testing in soils
5. Heavy metal accumulation analysis in plants
6. Oxidative stress assays with metal ions

7. Biomineralization measurement in plants and animals
8. Metal complex synthesis for therapeutic applications
9. Catalytic activity assays for metalloenzymes
10. Metalloprotein purification and characterization

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 Bioinorganic Chemistry Summer Internship Fees](#)

Application Process and Other info