

Nano-Microbiology Summer Internships

Join Nano-Microbiology summer internships to explore the intersection of nanotechnology and microbiology, focusing on the development of nanoparticles for microbial control, microbial-nanoparticle interactions, and the use of nanotechnology in microbial diagnostics and environmental applications.

Focussed Areas under Nano Microbiology Summer Internship

1. Nanoparticles for antimicrobial applications
2. Microbial-nanoparticle interactions
3. Nanotechnology in microbial diagnostics
4. Nanoparticles for environmental bioremediation
5. Molecular mechanisms of microbial resistance to nanoparticles
6. Nanoparticle-based biosensors for pathogen detection
7. Nanotechnology in food safety and microbiology
8. Nanoparticles for biofilm disruption
9. Nanomaterials for microbial fuel cells
10. Nanotechnology in wastewater treatment and microbial management
11. Nanoparticles in drug delivery for infectious diseases
12. Nanostructures for microbial growth inhibition
13. Nanotechnology in agricultural microbiology
14. Nanoparticles for virus detection and control
15. Nanotechnology in microbial genetics and gene editing
16. Nanomaterials for studying microbial metabolism
17. Nanotechnology in the study of extremophiles
18. Nanoparticles in vaccine development for microbial diseases
19. Nano-biosensors for rapid microbial diagnostics
20. Nanotechnology for enhancing microbial fermentation processes

Protocols Covered across various focussed areas under Nano Microbiology Summer Internship

1. Synthesis of antimicrobial nanoparticles
2. Nanoparticle-based biosensor fabrication for microbial detection
3. Protocols for nanoparticle-microbe interaction studies
4. Nanoparticle testing for biofilm disruption
5. Nanoparticles for microbial fuel cell development protocols

6. Nanotechnology-based pathogen detection workflows
7. Nanomaterial characterization in microbiological applications
8. Protocols for nanoparticle delivery in infectious diseases
9. Nanotechnology in wastewater treatment protocols
10. Nanoparticles in vaccine development for microbial infections

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

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

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Application Process and Other info