Archaea Microbiology Summer Internships

Join Archaea Microbiology summer internships to study extremophilic archaea in hot environments, focusing on their roles in biogeochemical cycles, biotechnology, and environmental sustainability.

Focussed Areas under Archaea Microbiology Summer Internship

1. Thermophilic archaea in hot springs
2. Archaea in geothermal environments
3. Archaea in desert ecosystems
4. Methanogenic archaea and biogas production
5. Role of archaea in carbon cycling
6. Halophilic archaea in saline environments
7. Archaea in oil and gas reservoirs
8. Archaea in wastewater treatment
9. Archaeal extremozymes for industrial applications
10. Sulfur-metabolizing archaea in extreme environments
11. Archaea in hot and acidic environments
12. Genomics of extremophilic archaea
13. Metagenomics of archaeal communities
14. Archaeal adaptations to high temperatures
15. Archaea in deep-sea hydrothermal vents
16. Environmental biotechnology using archaea
17. Archaea as bioindicators in extreme environments
18. Bioremediation using extremophilic archaea
19. Functional genomics of archaeal extremophiles
20. Archaeal lipid biosynthesis in extreme conditions

Protocols Covered across various focussed areas under Archaea Microbiology Summer Internship

1. Sampling of thermophilic archaea from hot springs
2. DNA extraction and PCR amplification from archaeal communities
3. Methanogenic activity assays
4. Enzyme activity assays from extremophilic archaea
5. Metagenomic analysis of archaeal populations
6. Culture methods for extremophilic archaea

7. Biogas production assays with methanogenic archaea
8. Lipid analysis of archaeal cell membranes
9. Protein extraction and purification from archaea
10. Archaeal genetic modification techniques

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 Archaea Microbiology Summer Internship Fees

Application Process and Other info