

## White Biotechnology Internship

# **Advanced Focussed Areas for Interns in White Biotechnology Internships**

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#### • Fundamentals of White Biotechnology

- Introduction to Industrial Biotechnology
- Principles of Biocatalysis and Enzyme Engineering
- o Applications of White Biotechnology in Industry
- Ethics and Safety in Industrial Biotechnology
- Future Directions in White Biotechnology

## • Biocatalysis and Enzyme Engineering

- Enzyme Discovery and Characterization
- Protein Engineering and Design
- o Case Studies in Biocatalysis
- Future Trends in Enzyme Technology
- Challenges in Enzyme Engineering
- Regulatory Aspects of Enzyme Use in Industry
- Impact of Enzyme Engineering on Industrial Processes
- Public Engagement and Education in Enzyme Biotechnology
- Integration of Biocatalysis with Industrial Chemistry

#### • Sustainable Production and Bio-Manufacturing

- Development of Bioprocesses for Industrial Production
- o Bio-Manufacturing of Chemicals and Materials
- Case Studies in Sustainable Production
- Future Directions in Bio-Manufacturing
- Challenges in Scaling Up Bio-Manufacturing
- Regulatory Aspects of Sustainable Production
- o Impact of Bio-Manufacturing on the Environment
- Public Engagement and Education in Sustainable Technologies
- Integration of Bio-Manufacturing with Traditional Manufacturing

#### • Eco-Friendly Technologies and Applications

- Bioremediation and Environmental Biotechnology
- Development of Biodegradable Materials
- Case Studies in Eco-Friendly Technologies
- Future Directions in Environmental Biotechnology
- Challenges in Developing Eco-Friendly Solutions

- Regulatory Aspects of Environmental Applications
- Impact of Biotechnology on Environmental Sustainability
- Public Engagement and Education in Environmental Sciences
- Integration of Biotechnology with Environmental Protection
- Future Research Priorities in White Biotechnology

## • Future Directions and Emerging Trends

- o Innovations in White Biotechnology and Industrial Applications
- o Role of Biotechnology in Circular Economy and Sustainability
- Emerging Applications in Various Industries
- o Global Trends in Industrial Biotechnology Research
- Future of White Biotechnology in Industry and Environment
- Ethics and Regulation in Industrial Biotechnology
- Future Research Priorities in White Biotechnology
- o Impact of White Biotechnology on Society
- Public Engagement and Education in Industrial Biotechnology
- o Integration of White Biotechnology with AI and Data Science

# Contact Via Whatsapp on +91-7993084748 for Fee Details