

## Research Project Internship Form

Date 17/08/2023

**Faculty Supervisor Name: Dr Raunak Dhanker**

**Faculty Co-Supervisor Name: (if any)**

Prof. Seema Mukhija, Acharya Narendra Dev College, University of Delhi

Prof. Sarita Kumar, Acharya Narendra Dev College, University of Delhi

Prof. Ram Kumar, Former dean, Department of Environmental Science, School of Earth, Biological and Environmental Sciences, Central University of South Bihar,

Dr Shashank Kamble, Amity Institute of Biotechnology, Amity University, Mumbai, Maharashtra

Dr Rahul Pratap, Associate professor, School of Medical and Allied Sciences, GD Goenka University,

Dr Arpita Sharma, Assistant Professor, School of Agricultural Sciences

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**Department/School:** Department of Basic and Applied Sciences, School of Engineering and Sciences

**Internship Project Name:** a) Waste management and its applications in different fields  
b) Impact of pollutants on aquatic organisms

**Duration of Internship:** 1 to 6 Months

**Number of Students Needed:**

**Location of Internship (Lab/Company/Office):** GDGD and other Indian institutions

**Prerequisites:** a) i) infrastructure, ii) composting and organic waste management, iii) Culture facilities of Nobel microorganisms, iv) waste to energy facilities

b) i) Pollutant identification and characterization, ii) Sampling and monitoring techniques, iii) laboratory analysis skills iv) Experimental design v) data analysis and interpretation, vi) Collaboration and communication, and vii) ethics and environmental responsibility

**Project Details:** (At least 150 words):



- a) Waste management is a vital aspect of environmental sustainability and public health. Application of waste management can be in different fields such as industrial sector, environmental remediation, agriculture and farming and biomedical fields. Waste management is crucial for reducing landfill burden and sustainable environment management.
- b) To investigate the influence of pollutants on aquatic organisms is important to maintain the health of the aquatic ecosystems and indirectly the health of the human beings. The investigation of pollutants impact on aquatic organisms is an holistic approach that integrate the ecological, toxicological and analytical knowledge to reduce the effects of pollutants on aquatic organisms through proper environmental regulations and eco-friendly management practices. Investigation will help in maintaining aquatic life and supporting fisheries. It is essential for maintaining the overall health of aquatic life and human beings.

**Comments/Notes:**