# Internship Program at PRAYOG, CTARA IIT Bombay (Project Title- Pond Rejuvenation)

## About PRAYOG, IIT BombayFree vector seminar concept illustration

**PRAYOG** is a new initiative of **IIT Bombay** launched in June 2021. PRAYOG enhances the **applied multidisciplinary research** at IIT Bombay to solve societal problems, which requires a detailed understanding of the social and technicalities behind any societal problem. PRAYOG has built a strong theory for problem identification and definition from domains like Education, Health, Skill development, Women empowerment, water, and many more. These problems need to be put forth in the form of projects, and proposals need to be prepared for funding and implementation. The PRAYOG is continuously receiving inquiries about pond rejuvenation through CSR, and one of the most recent is received from the District Collector Jashpur, Chhattisgarh. The internship aims to provide an implementable solution for a pond by designing pond rejuvenation techniques.

## Pre-requisites

1. **Enthusiastic and eager to work on developmental projects**
2. Good data handling skills and English writing skills
3. Knowledge of **MS word, PowerPoint and excel or Latex**
4. Knowledge of water quality, basic hydrology, and water resources.

## Structure of Training cum Internship (03 to 04 Months)

**Duration:** 03 to 04 Months (From 1st Feb 2024 to 30th May 2024)

## Detailed scope of the work

The detailed scope of the work for the internship includes a literature review on the various pond rejuvenation techniques, assisting in collecting primary and secondary data about the shortlisted pond, and analyzing it. To assist in the collection of water samples and testing them at IITB laboratory. Design a pond rejuvenation strategy for the selected pond after conducting the survey. Prepare a DPR for the rejuvenation, including costing as per district schedule rate (DSR). Prepare pollution abatement and water body protection guidelines for the same pond.

## Roles and responsibilities of Student/intern

1. The final year students shall be preferred for this project where the student can align his Masters or B.Tech/BE project as academic submission and assist in this project to complete the work
2. The student shall assist in field visits to conduct surveys, collect secondary and primary data and sampling.
3. Student shall assist in testing the sample and analyzing the results.
4. Student shall review literature, prepare draft design of pond rejuvenation techniques, and help Research Associate at PRAYOG/CTARA prepare the project report.
5. Student shall analyze data, prepare individual reports and submit it within time.
6. Student shall present the work and help in writing scientific paper out of the work

## Eligibility

1. Ongoing (Final Year) or completed Bachelor in Civil Engineering or Environmental Engineering or Water Resource Engineering from any recognized Institution
2. Ongoing Master Water/Environmental/Civil Engineering

## Selection procedure and No. of interns

| Sr. | Mode | No. of Interns | Selection procedure |
| --- | --- | --- | --- |
| 1 | Offline | 01 | 1. Based on the CV, candidates will be shortlisted for the interview. 2. Shortlisted candidates will be selected based on interviews. |

## Important Dates

| Sr. | Activity | Dates |
| --- | --- | --- |
| 1 | Applications start | 08th Jan 2024 |
| 2 | Last date of application | 25th Jan 2024 |
| 3 | Shortlist for interviews | 28th Jan 2024 |
| 4 | In-person/online interviews | 29th Jan 2024 |

## Link to apply

To apply for the internship, visit this link: <https://forms.gle/PPt5h5f4itD8SBqo7>

## Know more about PRAYOG

To know more about PRAYOG, please visit - <https://www.prayog.ctara.iitb.ac.in/>

**Note:** PRAYOG, IIT Bombay will **NOT** provide any stipend or accommodation.