



WORK OFFER

Ref. No. IN-2020-41429-MJ

Employer Information

Employer: Manipal University Jaipur
Research and development
Manipal University Jaipur
303007 Jaipur
India

Website: jaipur.manipal.edu

Location of placement: Jaipur
Nearest airport: Jaipur Airport
Working hours per week: 40.0
Working hours per day: 8.0

Number of employees: 450
Business or products: Education

Student Required

General Discipline: 14A-ENGINEERING, Other
14B-CIVIL ENGINEERING, GEOLOGY AND MINING
26-BIOLOGICAL AND BIOMEDICAL SCIENCES

Completed years of study: 3

Field of Study: 14.0101-Engineering, General.
14.1401-Environmental/Environmental Health Engineering.
14.0801-Civil Engineering, General.
26.0101-Biology/Biological Sciences, General.

Student status requirements: Required during the internship

Language required: English Excellent

Required Knowledge and Experiences:

The trainee should bring a laptop for the entire Internship period. Knowledge of water quality analysis and electrochemical systems is desirable.

Other requirements:

Work Offered

Microbial Fuel Cells (MFCs) implemented in Constructed Wetland environments due to marked redox gradient are bio-electrochemical systems in which the electrons resulting from the oxidation of the organic matter are transferred, using exo-electrogenic bacteria, to an external circuit thus generating an electric current.

The main objective of this work is to determine the benefits resulting from the synergy between CW and MFCs.

Objectives:

- To design and construct a vertically constructed wetland with MFC integration as a continuous flow system.
- To determine the influence of CWs operational conditions and MFC architecture on energy production in CW-MFCs.
- To determine the applicability of CW-MFCs as a COD bioindication tool in wastewater.
- To determine the overall impact of the implementation of MFCs in CWs using real wastewaters.

Number of weeks offered: 6 - 8
Working environment: Research and development

Within the months: 01-JUL-2020 - 30-SEP-2020
Gross pay: 5000 INR / Month

Or within: -
Deduction to be expected: 0%

Company closed within: -
Payment method / time of first / payment:

Latest possible start date:

Accommodation

Canteen at work: Yes

Expected type of accommodation: Student dormitory
Estimated cost of lodging: 0 INR / Month

Accommodation will be arranged by: IAESTE
Estimated cost of living incl. lodging: 5000 INR / Month

Additional Information

The intern shall be provided with FREE Accommodation. For more information about the local committee: <http://explore.iaeste.in/muj>

Nomination Information

Deadline for nomination: 15-MAR-2020

Date: 03-FEB-2020
On behalf of receiving country: Siddharth Chadha