



## WORK OFFER

Ref. No. IN-2023-D1417-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 Aiport  
**Working hours per week:** 40.0  
**Working hours per day:** 8.0

**Number of employees:** 450  
**Business or products:** Education

### Student Required

**General Discipline:** ELECTRICAL AND ELECTRONICS ENGINEERING; MECHANICAL ENGINEERING  
**Completed years of study:** 2

**Field of Study:** .Electromechanical Engineering.; Engineering Mechanics.; Mechanical Engineering.

**Student status requirements:** YES

**Language required:** English Excellent (C1, C2)

**Required Qualifications and Skills:** Scientific Research | Report Writing | Product Design | Analytical Thinking

**Other requirements:**

It is preferable that the student has some experience in report writing

### Work Offered

**Title of the project:**  
Violent Activity Recognition using Fabric Deformation  
Activity recognition is used to monitor human activity in various applications like assistance for an elderly and disabled person, Health care, physical activity monitoring, and also to identify a physical attack on a person, etc. The main steps outlining the process of activity recognition are the location of sensors, pre-processing of the statistical data, and activity. Three supervised algorithmic techniques were used namely Decision tree, K-NN classifier, and Support Vector Machine (SVM).

The objectives of this project are:

1. Fabric sensors are worn by the subject to deformation (stretch and strain) when it is subjected to some force.
  2. When violent activity is subjected, there will be a lot of stretching of fabrics will take place.
  3. Due to large deformation, the mechanical signal is converted into an electric signal.
  4. After the analysis, we can identify if it is a violent attack or a normal motion.
- Expected Outcome: Report or Paper

If the intern wishes to work from home:

1. We need you to be able to devote at least 5 hours per day to developing tasks.
2. We will set up weekly meetings to follow up on the progress of work using Skype.
3. You shall be provided with the existing resources for your aid.
4. Due to the time zone difference, we expect you to be flexible with meeting timings.
5. Although no stipend will be provided, Manipal University Jaipur recognizes the hard work of remote interns and shall be providing a sponsored Coursera License for 1 year that you may use to skill up with a world-class learning experience.

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

**Within the months:** 01-JUL-2023 - 30-SEP-2023  
**Gross pay:** 15000 INR / Month

**Or within:** -  
**Deduction to be expected:** 0%

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

**Latest possible start date:**

### Accommodation

**Canteen at work:** Yes

**Expected type of accommodation:** Student dormitory  
**Estimated cost of lodging:** 7000 INR / Month

**Accommodation will be arranged by:** IAESTE  
**Estimated cost of living incl. lodging:** 15000 INR / Month

### Additional Information

### Nomination Information

**Deadline for nomination:** 15-MAR-2023

**Date:** 01-FEB-2023  
**On behalf of receiving country:** IAESTE India



IAESTE INDIA

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## Declaration

Name:

Offer Number:

Country:

Preferred mode of internship:  Conventional

Remote

I hereby declare that I am willing to pursue my internship in obedience to the above-selected mode.

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Date (dd/mm/yyyy):

Signature:

*Note: The candidate must include this form as the last page of the nomination document for hybrid offers.*

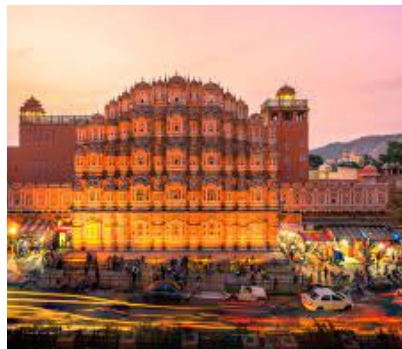


# Internships at IAESTE LC MUJ

RAJASTHAN, INDIA



IAESTE India LC Manipal University Jaipur, established in the year 2013, aims to help its members realize their dreams and facilitate the exchange of ideas, both technical and cultural, by connecting students from various cultures and countries. Throughout the years, IAESTE India LC MUJ has hosted a diverse variety of interns from across the globe and has succeeded in sending its skilled members as interns to other nations. Whether it be international friendships or global connectivity, IAESTE LC MUJ has always keenly cherished the true spirit of IAESTE, the three magical words i.e 'Work. Experience. Discover.'



## THE CITY:

Jaipur, also known as Pink city, is the capital city of India's Rajasthan state. It has an International airport and it is just 275 km from New Delhi. The city has a good network of roads connecting it with major Indian cities. The climate of Jaipur is dry throughout the year and the temperature during June-Aug remains between 25°C to 35°C.

Manipal University Jaipur (MUJ) is an oasis of education and has a sprawling new campus with opportunities spread across disciplines. MUJ boasts of its world-class infrastructure, including state-of-the-art research facilities and a modern, digital library. In line with Manipal University's legacy of providing quality education to its students, the campus uses the latest technology to impart education and render an excellent working environment.

# EVENTS

TO LOOK FORWARD TO



## International Cultural Evening

The cultural evening is poised to be an invigorating evening where both the hosts and interns will put forward the essence of their respective cultures and traditions. There will be numerous cultural performances reflecting myriads of Indian traditions.



## Cross-Cultural Culinary Workshop

Food brings everyone together and cooking it by themselves makes it more special. In this event, interns get a chance to cook their favorite dishes with the help of the state-of-the-art kitchen at MUJ. Our team helps the interns to prepare easy traditional dishes. Remote student interns are provided with Indian food recipes and directions on how to create the dish to them virtually.



## Online Gaming Fiesta

Games are a positive aspect of everyone's lives, and to engage both remote and traditional interns we have planned to host tournaments on mind-bending yet engaging games. From Valorant, a popular first-person shooter game, to Jackbox or even FIFA will be played.



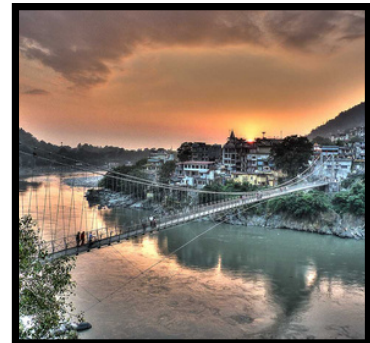
## Treasure Hunt

Interns and their companions will work as a team to solve riddles based on India and their home country and get to know each other in the process. We will learn from one another's cultures and gain a deeper understanding of our own countries this way.



## Prom Night

A themed Prom night with a zest of Bollywood music and exuberant amounts of dancing. Apart from dancing, there will be plenty of icebreaker activities that will result in long-lasting friendships.



## Rishikesh

An exhilarating 4 days experience for the interns traveling to the holy banks of the Ganges, where people from across the globe visit to experience spiritual serenity. They can try various adventure activities to give themselves an adrenaline rush and After all this one can calm themselves in the vicinity of the waterfalls at Rishikesh.