



## WORK OFFER

Ref. No. IN-2021-A1411-JC

### Employer Information

**Employer:** JECRC University  
Research & Development  
Plot No. IS-2036 to 2039, Sitapura Industrial Area Extn,  
Ramchandrapura  
Near Mahatma Gandhi Hospital, Vidhani Village  
303905 Jaipur  
India

**Website:** www.jecrcuniversity.edu.in

**Location of placement:** Jaipur  
**Nearest airport:** Jaipur Airport  
**Working hours per week:** 35.0  
**Working hours per day:** 7.0

**Number of employees:** 200  
**Business or products:** Educational Institution

### Student Required

**General Discipline:** MECHANICAL ENGINEERING  
**Field of Study:** .Engineering Mechanics.; Mechanical Engineering.

**Completed years of study:** 2  
**Student status requirements:** Required throughout the internship  
**Language required:** English Good (B1, B2)

**Required Knowledge and Experiences:**  
Good knowledge of ANSYS, MATLAB and any 3D modeling software is required.

**Other requirements:**

### Work Offered

Total Ankle Arthroplasty is gaining popularity as an alternation to Ankle Arthrodesis, for end-stage ankle arthritis total ankle arthroplasty has higher failure rates. Bio-mechanical exploration of the effects of total ankle arthroplasty on the foot and ankle is imperative for the precaution of postoperative complications.

In this project, intern is expected to perform the following tasks:

1. Compare theoretically, Metallic (Ti6Al4V Alloy, Stainless Steel), Composites (Gr/Epoxy, C/HA), and FGM (Al<sub>2</sub>O<sub>3</sub>) Ankle arthrodesis, which are thought to be their alternatives, according to their effects on the bone and the fracture site.
2. To investigate the bio-mechanical differences of the foot and ankle between the foot with total ankle arthroplasty and the intact foot.
3. To investigate the performance of the three-component ankle prosthesis.

If the intern wishes to work from home:

1. We need you to be committed to working 4 to 5 hours per day for searching review literature on the internet.
2. We will set up weekly meetings to follow up on the progress work using Zoom.
3. You will be provided with a professional email ID where you can directly send the daily report.
4. The faculty will help you to prepare a methodology for the research work plan.

**Number of weeks offered:** 8 - 10  
**Working environment:** Research and development  
**Within the months:** 05-JUL-2021 - 27-OCT-2021  
**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:** 10000 INR / Month  
**Accommodation will be arranged by:** IAESTE JECRC  
**Estimated cost of living incl. lodging:** 12000 INR / Month

### Additional Information

The option of Work from Home is available for this offer. In the case where the intern chooses to work from home, there will be no stipend provided. However, in the case where the intern opts to intern at the employer's address, a stipend will be provided for the period of internship.

### Nomination Information

**Deadline for nomination:** 15-MAR-2021

**Date:** 23-JAN-2021  
**On behalf of receiving country:** C Mrinal Ganapathy



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

OFFERED THROUGH IAESTE INDIA LC JECRC

The 32-acre campus of JECRC University combines a unique and classical architecture and a thoughtful layout to create the perfect learning ecosystem. The campus is located around the prime industrial hub of Jaipur and is well connected with all parts of the city. JECRC University is driven by the spirit of innovation-led research. This is spelt out in infrastructure as well as practices. JECRC is known for a strong research culture and close industry linkages.

## Activities around the year at IAESTE LC JECRC:

 Sightseeing in Jaipur :  
The interns will get to visit the historic places in Jaipur like Jantar Mantar, Amer Fort, The City Palace, Hawa Mahal, and Albert Hall Museum as well. They will do shopping in the old City.

 Events:  
International Cooking Fiesta: With the help of the hotel management department, the interns will make dishes from their native country. It is an amazing event discovering different traditions and tasting delicacies from different countries.

 Navratri Celebrations: The interns will take part in the Garba Night organized by JECRC University.

 Independence Day Celebration: The interns would get to know about the history of Indian independence at JU campus followed by lunch.

 Flagship Events :  
Padharo Jaipur - A weekend where all the interns from other Local Committees can come together in Jaipur and explore various locations and spots in the city. Have a BBQ together at the BBQ nation. Play scavenger hunt based games all over the city. Do sightseeing and some shopping in the old city.

 Bollywood Night at IAESTE LC JECRC - A night where we will showcase famous Bollywood movies and have a movie night. Dress up like various actors and have fun activities followed by dinner.

### Weekend Trips to other Cities :

Pushkar and Ajmer: Pushkar is set on Pushkar Lake, a sacred Hindu site with 52 ghats where pilgrims bathe. Ajmer is famous for it's Sharif Dargah, the domed shrine of the Muslim Sufi saint Garib Nawaz.

 Agra: Agra is a city on the banks of the Yamuna river. It is famous for the Taj Mahal.

Jodhpur: Jodhpur is famous for its 15th-century Mehrangarh Fort.

Delhi: India's capital territory, is a massive metropolitan area in the country's north.

Udaipur: Udaipur is set around a series of artificial lakes and is known for its lavish royal residences.



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# REMOTE INTERNSHIPS

OFFERED THROUGH IAESTE INDIA

IAESTE India is now offering remote internship opportunities through our partner universities. These universities are among the top-ranked institutions in the country and each internship will be closely supervised by an experienced professor.



Communication between trainee and guide will be through Online platforms such as Skype, Microsoft Teams, Google Meet etc. The guide will be in touch regularly to discuss the project and ensure a positive learning outcome.



Majority of the softwares/packages used for the projects will be open-source else licenses will be provided.



All the offered projects are industry-relevant and are great for enhancing domain-specific skill sets.



There is also a possibility of the trainee being able to contribute to a research publication.



Trainee will receive an IAESTE Certificate post the successful completion of the in internship.



Trainee will be a part of various remote events such as Scavenger Hunt, Bollywood Night, Talent Night, Virtual Tour, Games Night, etc. organized throughout their internship.



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