TRANSPORTATION RESEARCH CENTER INTERN

Posting ID: IN1810503C

Company: UNLV Transportation Research Center

Work Location: Las Vegas, NV

Company Website: http://www.trc.unlv.edu/

Position Type: Part-Time

Salary: $13/hour

College Major(s): Civil Engineering (CEE), Mechanical Engineering (ME), Electrical/Computer Engineering (EE/CpE)

College Level(s): Undergraduate-Junior, Undergraduate-Senior

OVERVIEW

The University of Nevada, Las Vegas Transportation Research Center (TRC) was established in 1988 initially as the Nuclear Waste Transportation Research Center. In 1991, its name was changed to the Transportation Research Center. Housed in the Howard Hughes College of Engineering, since its inception, the TRC's activities have included participation from faculty of the Departments of Biological Sciences, Civil and Environmental Engineering, Electrical and Computer Engineering, Geo-sciences, Mathematical Sciences, Mechanical Engineering, and Public Administration.

To date, the TRC has involved over eighty undergraduate and graduate students in over eighty sponsored projects conducted at the center. These projects have supported a wide range of sponsors including several federal, state and local government agencies as well as from the private sector. In addition, the center has hosted several workshops, training sessions, and conferences.

The mission of the TRC is to promote and conduct transportation research, educational, and outreach activities.

The goals of the Transportation Research Center are to:
Develop and Maintain a Nevada-based Center For Multi-modal Transportation Research and Policy Analysis.
Educate And Prepare Students For Careers In Transportation.
Provide Extension and Outreach Services to Public and Private Sector Organizations.

The TRC is physically located in the new Science and Engineering Building (SEB) with a laboratory in Room 3219 and staff office rooms from 3214 to 3219.
Roles and Responsibilities
We are building a demand-activated rumble strips. The design is actuated by a linear actuator. We are considering using Siemens PLC to activate it based on time intervals or pedestrian input. We would like help with interfacing the device with controller. We also need help building a circuit for measuring current of the actuator and reversing direction if load is excessive.

The project can be opportunity to gain a real-life experience and be part of a multidisciplinary team.

Education and Qualifications
- Good written and oral communication skills.
- Ability to be a part of a multidisciplinary team.
- Undergraduate Junior or Senior.
- Should be studying Electrical/Computer Engineering, Civil Engineering, or know concepts in those fields.

How to Apply
To apply and further information, please contact Dr. Mohamed Trabia at mohamed.trabia@unlv.edu.

To see the current projects done by the UNLV TRC go to: http://www.trc.unlv.edu/projects.html