STUDENT RESEARCH ASSISTANT

Posting ID: 
Company: UNLV Transportation Research Center
Position Type: Research Assistant
College Major(s): Any

Company Website: http://www.trc.unlv.edu
Work Location: College of Engineering
Salary: N/A
College Level(s): Any

OVERVIEW
The Transpiration Research Center invites students from engineering and related fields to pursue internship and/or graduate studies in the fields of Computer Science, Electrical/Computer Engineering, Civil Engineering, transportation and Infrastructure Systems, Concrete Materials and Infrastructure, and Mathematics and Statistics. Multi-disciplinary, systems-oriented and a hands on perspective characterizes the plans of student and research topics. Students from all engineering disciplines and related fields are welcome to apply.

PROJECT A
The Transportation Research Center (TRC) is currently working on a research project to examine the relationship between community walkability and health and wellbeing. The selected student would gain valuable research experience by working with a multidisciplinary team. The student would complete a thorough literature review on community design and neighborhood walkability, contribute to the study methodology by participating in survey design and distribution efforts, enter collected data, participate in data analysis, and in drafting results.

Skills Required
- Able to work in team with other students across many disciplinaries and academic levels.

PROJECT B
TRC is building prototypes for interactive simulation and virtual reality. It would be great to have volunteers with background in graphic design or software development. We need help with the development of highly realistic models of objects such as vehicles, trees, and buildings as well as roadway features to display and use them in Unity.

Skills Required
- Able to develop software
- Able to work on a team with other students

OR
- Able to create 3D realistic models
- Able to work in a team with other students
PROJECT C

We are building an integrated system for collecting and reporting crash and citation data. The integrated system involves three applications: an api-server, a mobile application, and a web application. Law enforcement agents collect crash and citations data using the mobile application. The data is sent in real-time to the server application which makes it available through the web application. The api-server offers a REST-API web service endpoint which allows to extract raw or aggregated information. The mobile application is built with the latest Microsoft Technology, Universal Windows Platform. The web application is a Microsoft MVC 5 web application.

Skills Required

- Familiar with mobile applications development
- Knowledge of C# or Java programming languages.
- Able to work on a team with other students

How to Apply

Contact Dr. Paz at apaz@unlv.edu or at 702-895-0571 to apply.