



## INTERNSHIP PROGRAM

### ***Engineering Internship Program at UNLV***

Preparing our students to become future engineering innovators is the top priority at the Howard R. Hughes College of Engineering, and we place high value on our relationships with the engineering community across Las Vegas. If your organization is interested in establishing a long-term paid or unpaid internship program with us, we want to know about it. While at UNLV, our students develop strong skill sets and a diverse knowledge base in most areas of engineering.

### ***Civil and Environmental Engineering and Construction***

Students are prepared to work in projects involving residential and commercial development, construction management, water/wastewater infrastructure, transportation infrastructure, environmental engineering, geotechnical engineering, construction materials, and structural engineering. Junior students have had laboratory and coursework experience that includes fluid mechanics, structural analysis, engineering mechanics, soil mechanics, civil engineering materials, CAD tools, transportation engineering, construction safety, and facility design in construction. Senior students have been exposed to coursework and laboratory experience in GIS applications, water/wastewater treatment, geophysics, concrete design, steel structures, air pollution, water resource engineering, and construction scheduling and estimating.

### ***Computer Sciences***

Students are trained to perform problem solving and algorithm development in almost all application areas of computer science and information technology. Specific tasks undergraduate students can perform include web-page programming, and maintaining software systems (data base, gaming, Cad/CAM, GIS, networking, etc.). They can develop medium size programs in programming languages that include Java, C++, and C#. Some students, particularly seniors, are trained to develop app programming for Android and iPhone platforms.

(continued on reverse)

## Electrical and Computer Engineering

Projects involving electrical power, computers, controls, electronics, communication systems, electronic gaming hardware, signal processing, and diagnostic instrumentation are areas where junior and senior electrical and computer engineering students are prepared to contribute. Junior students have had laboratory and coursework experience that includes circuits, digital design, printed circuit board layout/design, simulation tools, power systems, computer tools for engineering design, electronics, microcontroller design and use, and electronics. Senior students have been exposed to coursework and laboratory experience in project scheduling and estimating (via senior design project), electromagnetics, advanced digital hardware design, system design, power distribution, embedded system design, and integrated circuit design.

## Entertainment Engineering and Design

Students receive training in many of the traditional engineering disciplines, while also learning how to apply those principles to the entertainment industry, including entertainment rigging, entertainment automation, structures, programming and technical operations. Junior students have had laboratory and coursework experience that includes electronic circuits, materials, fabrication, programming, digital design, and static structural. Senior students have been exposed to coursework and laboratory experience in project management, dynamic structures, structural analysis and system design.

## Mechanical Engineering

Students are prepared to work with design, manufacturing, and operation of devices, machines, and systems. Junior students have preparation in manufacturing, CNV, machine design, fluid mechanics, thermodynamics, AutoCAD, 3D modeling with Solid Works and Pro Engineer, MathLab applications, and safety engineering. Senior students have been exposed to energy conservation, solar energy generation, thermal system design, mechanical vibrations, automated controls, aircraft design, HVAC, autonomous systems, and robotics.



## How to Get Started

We would love to talk further with you about various possibilities. Contact Mr. Steve Parrish ([SParrish@regionalflood.org](mailto:SParrish@regionalflood.org)) or Dr. Jaci Batista ([Jaci.batista@unlv.edu](mailto:Jaci.batista@unlv.edu)) for more details.



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