Special Note: This is just information for global interns to look at our faculty members and their research areas. What this mean is that even though you want to work with a specific faculty member, we may not be able to match you with him/her!! Please keep that in mind.

Undergraduate and/or Graduate Research Opportunities for international Students at the University of Nevada, Las Vegas

Department of Computer Science

Dr. Mingon Kang
- Maximum Number of Interns: 10 (but flexible)
- Projects: Bioinformatics, Deep Learning, Text/Data Mining, Computer Vision
- Areas of Expertise Interns Should Have: Programming languages skills are required. Strong background of mathematics, Statistics, and Computer Science are preferred.

Dr. Beiyu Lin
- Maximum Number of Interns: 10 (but flexible)
- Projects: Behavior Modeling, Sensor Data, Imitation Learning, Applications to Healthcare, traffic, etc.
- Areas of Expertise Interns Should Have: Programming languages skills are required. Strong background of mathematics, Statistics, and Computer Science are preferred.

Department of Electrical and Computer Engineering

Dr. Venkatesan Muthukumar
- Maximum Number of Interns: 8
- Projects: 1) Robotics (SLAM) 2) Unmanned Aerial Vehicles (UAVs) (acoustics and video processing) 3) Image Processing using Depth and 3D Sensors and Hyperspectral cameras 4) FPGA design for Deep Learning 5) Embedded Security and Machine Learning 6)Wireless and Wearable Sensor Networks.
- Areas of Expertise Interns Should Have: C/C++ Programming, Python+, Matlab, Embedded Systems (ARM or any 32-bit processor), Verilog/VHDL (FPGA design), Robotic Operating Systems (ROS), Linux.

Dr. Henry Selvaraj and Dr. Grzegorz Chmaj
- Maximum Number of Interns: 1
- Projects: IoT projects, FPGA/VHDL projects, and digital logic
- Areas of Expertise Interns Should Have: computer engineering in general, ideally having some knowledge about logic design, programming, embedded systems.

Department of Mechanical Engineering

Dr. Mohamed Trabia
- Maximum Number of Interns: 4
- Projects: 1) Developing a predictive model for diabetic ulcers 2) Biomechanics of plantar tissues 3) Biomechanics of colorectal tissues 4) Mechanical haracterization of ploymers

- Areas of Expertise Interns Should Have:
Signal processing; Programming, preferably in Matlab; Computer vision; and Basic understanding of biomechanics and dynamics; Finite Element, preferably in ANSYS; Data analysis; Machine Learning

Dr. Hui Zhao
- Maximum Number of Interns: 2
- Projects: 1) Biosensing 2) Nanotechnology 3) Photovoltaics 4) Biomaterials
- Areas of Expertise Interns Should Have: the knowledge of mechanical engineering, chemical engineering, and electrical engineering

Department of Civil and Environment Engineering

Dr. Jeehee Lee
- Maximum Number of Interns: 5 (but flexible)
- Projects: Data-driven Construction Management, Natural Language Processing (NLP) in Construction Management, SMART Construction
- Preferred interns will have research expertise in at least one of the following areas: construction/project management; building science; sustainable construction; architectural engineering; civil engineering. Programming language skills (e.g., Python, R, etc.) are preferred.

Dr. Jee Woong Park
- Maximum Number of Interns: 3
- Projects: 1) Tactile-based communication system for quick signaling to human subjects. 2) Human detection and density estimation by Bluetooth-low energy technology.
- Areas of Expertise Interns Should Have: Programming skill is preferred. Student without programming skills can assist system testing and other relevant activities.

Dr. Eakalak Khan
- Maximum Number of Interns: 2
- Projects: 1) Biodegradability and bioavailability of contaminants in Water 2) Removal of contaminants from water and wastewater
- Areas of Expertise Interns Should Have: Wet chemistry laboratory skills including safe handling of chemicals.

Dr. Jacimaria Batista
- Maximum Number of Interns: 1
- Projects: Environmental engineering research 1) Biological phosphate removal 2) Biological chromate reduction 3) Perchlorate reduction by bacteria.
- Areas of Expertise Interns Should Have: Wet chemistry laboratory skills including safe handling of chemicals; Junior or Senior Student

Dr. Erica Marti
-Maximum number of Interns: 2
-Projects: 1) Collection and analysis of water samples to determine potential for formation of disinfection byproducts, and 2) investigating multiple strategies to reduce trihalomethanes

(THMs) in water reservoir tanks. Some projects may involve working with wastewater or untreated surface waters.
-Areas of Expertise Interns Should Have: Environmental engineering, environmental chemistry, or analytical chemistry background. Students must have prior wet lab experience (e.g. chemical handling, pipetting, glassware handling, making solutions). Prior experience with mass spectrometry instruments is preferred but not required.

Dr. Jin Ouk Choi
- Maximum Number of Interns: 3 (in a condition that interns will have their own space/desk for work)
- Projects: 1) Construction Industry Institute's Modular Construction/Standardization 2) National Science Foundation's Construction Workforce 3)University Transportation Center's Planning/managing High-Speed Rail project
- Areas of Expertise Interns Should Have: 1) Basic Knowledge in Construction/Civil Engineering 2) Research interests in Construction Engineering and Project Management 3) English Proficiency

Dr. Ying Tian
- Maximum Number of Interns: 3 (but I cannot provide any office space)
- Projects: the experimental component of my ongoing NSF project: Behavior of reinforced concrete structures near collapse.
- Areas of Expertise Interns Should Have: Must have taken the courses of concrete material and reinforced concrete structures

Dr. Sajjad Ahmad
- Maximum Number of Interns: 3-4
- Projects: Storm water management; climate change; urban hydrology; groundwater change estimation using satellite remote sensing
- Areas of Expertise Interns Should Have: some Matlab programming skills,
course work in hydrology, water resources engineering, and GIS will be helpful but not required.

Entertainment Engineering and Design

Dr. Si Jung Kim
- Maximum Number of Interns: 6 (2 teams with 3)
- Projects: 1) Augmented and Virtual Reality (AVR); 2) Robotics
- Areas of expertise interns should have:
Programming experience with any computer languages and/or Experience with electronic circuits; Microsoft office programs;