PhD Research Assistantship in Biomechanics and/or Virtual Reality – NC State University ISE

The human factors and ergonomics research areas within the Edward P. Fitts Department of Industrial and Systems Engineering at North Carolina State University has multiple openings for funded full-time PhD positions (research assistantship) starting in Fall 2017. Our department is one of the top industrial engineering programs in the United States, and ranked as #2 by best-engineering-colleges.com in 2015. Our Ph.D. program offers great opportunities for motivated candidates to build their inter-disciplinary skillsets for successful careers.

The students will contribute to the research areas in biomechanics and/or virtual reality. There is numerous ongoing research such as occupational safety and healthcare applications in these areas. The laboratory is equipped with 3D motion tracking system, force platforms, inertial measurement unit devices, wireless EMG system, and instrumented treadmill for biomechanics studies. The laboratory is also equipped with a state-of-art immersive CAVE for virtual reality research.

Admission requirements and application process can be found here:

https://www.ise.ncsu.edu/future-studentsparents/admissions/

Additional preferred qualifications for this position include knowledge or research experiences in at least one of the following areas: mechanics, 3D rendering engines (e.g. Unity 3D, OGRE3D), statistical signal processing, computer vision, machine learning, or programming skills in C++ / C#.

We strongly encourage that the interested applicants first contact Dr. Karen Chen (https://www.ise.ncsu.edu/people/kbchen2) or Dr. Xu Xu (https://www.ise.ncsu.edu/people/xxu) via email to discuss their research interests before completing the application.