

Fully-Funded PhD Position at Texas A&M University-Corpus Christi, Texas, USA

Application Deadline: September 30th, 2021

The Collaborative Robots and Agents Lab (CORAL) is seeking for **an outstanding graduate student willing to pursue a PhD in Geospatial Computer Science at Texas A&M University-Corpus Christi (TAMU-CC), located in Corpus Christi, Texas, USA**. The student will be fully funded for a period of 3 years and contribute to various aspects of a National Science Foundation (NSF) project on *Unmanned Aerial Vehicles* (UAVs), particularly with *Drones*. Main research tasks may include, among others, the design and implementation of Geospatial techniques for creating and analyzing digital terrain as well as Cyber-security techniques for Authorization and Access Control.

The selected student will enroll in the Geospatial Computer Science (GSCS) program at TAMU-CC as a full-time PhD student. The student will primarily work with Drs. Carlos Rubio-Medrano and Tianxing Chu in the Department of Computing Sciences as well as other faculty who are tightly involved in this research project. The GSCS program at TAMU-CC is a unique and interdisciplinary doctoral program that trains students to become creative problem solvers by combining knowledge and fundamental theory in computer and geospatial sciences. Detailed information regarding the GSCS program can be found at <https://www.tamucc.edu/programs/graduate-programs/geospatial-computer-science-phd.php>.

We particularly seek for a highly qualified researcher with the following background and skills:

- Master's degree in one of the following disciplines: Computer Science, Electrical Engineering, or related disciplines (degree should be obtained not later than Fall 2021).
- Proficiency in programming in Java, C/C++, and Python.
- Experience in Ubuntu/Linux (Command Line).
- English proficiency (TOEFL score - Minimum paper-based score of 550 or equivalent internet-based score of 79-80 or IELTS minimum score of 6.5 if not graduated from an English-Speaking University).
- Ability to work independently and in a team, be innovative and creative.
- Ability to work structured and handle a heavy workload, mostly in lab environment but occasionally outside in the field for conducting drone experiments outdoors.

Desirable (not mandatory) qualifications and skills:

- Experience working with UAVs and robots.
- Moderate to advanced experience on Geospatial topics.
- Moderate to advanced experience on Cyber-security topics.

Additional Information

- The anticipated starting date is Spring 2022.
- A very competitive stipend will be provided.

- Financial support is available for attending conferences and workshops.
- Tuition, fees, healthcare insurance and other fringe benefits are covered by this opportunity.

In order to receive continuous funding support from this research project, you must remain in good academic standing and be making satisfactory progress toward degree completion. Upon completion of this three-year research project, the student's funding support before his/her dissertation defense will be contingent upon the availability of other associated funds.

The application deadline is September 30th, 2021. Interested individuals must send an email with the subject "Application to Open PhD Position" to the following address: coral.phd.cs@gmail.com. In such email, please include a compressed ZIP file with the following documents:

- A one-page cover letter outlining your background, qualification, and interests,
- Curriculum Vitae,
- Undergraduate and graduate transcripts with GPAs (or equivalent),
- Prior publications (if any),
- Any GRE and/or TOEFL/IELTS score (if available).