

Ph.D. Positions in the Area of Wireless Communications

Description: Two full-time research positions are available in the Electrical Engineering Department at the University of South Carolina, Columbia, South Carolina, United States. Self-motivated students with a solid background in Electrical Engineering, Computer Science, or Mathematics are encouraged to apply. Selected applicants will join the research group directed by Dr. Alphan Şahin at the University of South Carolina as graduate research/teaching assistants and will pursue their Ph.D. degrees in Electrical Engineering. The areas of research are in the physical layer of wireless communications, intelligent air interfaces, communications at high frequency bands, software-defined radios, MIMO systems, sequences, waveforms, and wireless sensing. The positions include a tuition waiver and a monthly stipend. Starting directly to Ph.D. from B.S. is possible.

Starting Date: Spring 2020 or Fall 2020

Responsibilities: Students are expected to conduct independent research and be able to publish their results in prestigious IEEE conferences and journals.

Minimum Qualifications:

- Bachelor's degree in Electrical Engineering, Computer Science, or Mathematics
- Solid analytical background
- Strong communication skills
- Proficiency in MATLAB

Preferred Qualifications:

- Master's degree in Electrical Engineering, Computer Science, or Mathematics or work experience in the physical layer of communication systems
- Research experience and/or publication record
- Background in linear algebra, digital communications, coding theory, and/or optimization
- Experience in testbed development or working with software-defined radios (e.g., USPRs)

How to Apply:

Please email your C.V., and academic transcripts to asahin@mailbox.sc.edu. Formal application must be submitted to the Graduate School via the following link:

https://sc.edu/study/colleges_schools/engineering_and_computing/apply/graduate/index.php

Additional admission requirements are available at

<http://gradschool.sc.edu/prospective/bya.asp?page=b4>

University of South Carolina: The University of South Carolina (also referred to as USC, UofSC, SC or simply Carolina) is a public research university in Columbia, South Carolina. It has seven satellite campuses throughout the state and its main campus covers over 359 acres (145 ha) in downtown Columbia not far from the South Carolina State House. The university is categorized by the Carnegie Foundation for the



Advancement of Teaching as having "highest research activity." It has been ranked as an "up-and-coming" university by U.S. News & World Report. USC is the flagship institution of the University of South Carolina System and offers more than 350 programs of study, leading to bachelor's, master's, and doctoral degrees from fourteen degree-granting colleges and schools. The University of South Carolina has a total enrollment of approximately 50,000 students, with over 34,000 on the main Columbia campus as of fall 2017 – making it the largest university in the Carolinas. USC also has several thousand future students in feeder programs at surrounding technical colleges. Professional schools on the Columbia campus include business, engineering, law, medicine, pharmacy, and social work.

