Cybersecurity research group at North Carolina State University is seeking multiple PhD students in the field of embedded and hardware security. These positions are available starting Fall 2020. Interested applicants can email aaysu@ncsu.edu. Please include your CV, publication list, and a statement of research interests. Candidates having one or more of the following research expertise are preferred.

- Cryptographic implementations: FPGA/ASIC design for post-quantum / lightweight crypto, homomorphic encryption, or multi-party computation
- Implementation attacks: side-channel analysis and fault attacks
- Machine learning: theoretical analysis or application experience with an emphasis on neural networks security and their implementation.
- Computer architectures and embedded software: RISC-V ISA and assembly programming
- Design automation and high-level (C-to-RTL) synthesis for security

Electrical and Computer Engineering Department of North Carolina State University is ranked top 10 in annual research expenditures. The graduate School of Engineering has been ranked #24 and the graduate Computer Engineering program has been ranked #26 by US News Rankings 2018.

Dr. Aydin Aysu  
Assistant Professor at the Electrical and Computer Engineering Department  
Adjunct Professor at the Computer Science Department  
North Carolina State University

**Bio:** Dr. Aydin Aysu is an Assistant Professor at Electrical and Computer Engineering Department and an Adjunct Professor at the Computer Science Department of North Carolina State University. Prior to joining NC State, he was a post-doctoral researcher at the University of Texas at Austin. He received his PhD at Virginia Tech, and his MS and BS at Sabanci University. He conducts research in the broad field of cybersecurity with an emphasis on hardware-based security, and he leads the HECTOR (Hardware and Embedded Cyber-Threat Research) lab.