

Honors Summer Research Program

Department of Electrical and Computer Engineering

Program Name: ECE Honors Summer Research Program

Goal: The primary goal of the program is to enrich students' research capabilities and learning experiences in the fields of Electrical Engineering, Computer Engineering, and Applied Artificial Intelligence. Participating in this program, students will have the opportunity to work with ECE professors on a variety of research projects.

Duration: May 19, 2020 – July 9, 2020 (It could be extended to August by mutual agreement between the individual faculty advisor and student.)

Cost: free

Credit: none

Eligibility: Stevens senior students or Master students with a GPA of 3.2 and above

Cap of section: 40 (The program director will select the top 40 among the applicants.)

Application form: attached (email the form to ncheung@stevens.edu)

Application deadline: May 11, 2020. Acceptance notice: May 15, 2020

Structure: Students initially choose a research topic when applying. ECE professors then help students formulate a research problem and guide students working on the solutions. At the end of the program, students will present their projects. The top three teams will be awarded. All participants will receive a certificate. Note that all activities will be conducted online through Zoom meetings.

Suggested topics:

- Data security and privacy
- Blockchain and distributed trust
- Applied machine learning
- Smart grids and power systems
- Internet of Things
- Wireless networking
- Wireless communications
- Artificial intelligence and machine learning
- Control theories and methods
- Radar, sonar, and remote sensing
- Computer perception and visual understanding
- Brain-computer interface and assistive technology
- Signal processing for next-generation wireless and data storage systems
- Autonomous robotic systems
- Analysis and design of complex networked systems

For more information visit the [ECE home page](#) and follow the [link Research](#).

Contact: Ms. Nina Cheung ncheung@stevens.edu.

Honors Summer Research Program Application Form

Name:	Student ID:
Email:	Major:
Cumulative GPA:	[] Senior [] Master
Phone:	

Research topic/title:

Elaborate a specific research problem you want to work on:



*By signing this form, I (name: _____) confirm that I will commit
at least 20 hours per week working with the ECE professor assigned to me on the research
problem mentioned above during the program period.*

Signature:

Date: