The core goal of this Workforce Development Program is to support Raytheon and the Department of Defense (DoD) with the identification and cultivation of a pipeline of clearable U.S. citizens interested in cyber security and machine learning.

Selected students will attend bi-weekly lectures, participate in seminars, and complete a project-based curriculum on topics related to cyber security and machine learning to prepare them for guaranteed internships at Raytheon or the DoD in summer 2022. All students in the program will receive a research stipend and will work on the program for 8-12 hours per week during the academic year.

Contingent on performance throughout the academic year and internship, you may be offered a full-time position and start your security clearance as part of this program.

Qualifications

Preferred majors include Computer Science, Computer Engineering, & CMDA
- Other degree programs with a cyber security minor or students in the cyber operations track would also be of interest
- Majors in Electrical Engineering, Math, Physics, or Aerospace Engineering will also be considered for students with an interest in cyber security

Rising sophomores and juniors who can commit to staying in the program for 2-3 years and can participate in summer internship program

Students should have an interest in cybersecurity, machine learning, and analytics.

Students must be able to obtain a clearance - students will need to review a security questionnaire and must be a U.S. Citizen
The Hume Center for National Security and Technology at Virginia Tech, in partnership with CACI, is recruiting students for the Scholar Development & Research Program.

As part of this program,
- Students will work on an experiential learning research project during 2021-2022 Academic Year (AY).
- Research will focus on signal processing, communications, and software defined radios.
- There will be mentorship from CACI & VT faculty, to include technical seminars provided by subject matter experts, and at least monthly progress updates prepared and presented by the students.
- All students in the program will receive research stipend and will work on the program for 8-12 hours per week during the academic year.
- Students who successfully complete the AY will have a guaranteed 10-week summer internship with CACI.
- Upon completion of 2 semesters of research and summer internship, CACI will have the opportunity to offer students full time employment, which will include signing bonuses and starting the security clearance process.

QUALIFICATIONS
- Electrical Engineering (EE), Computer Engineering (CPE), & Computer Science students
  - VT will also consider CMDA, Math, Physics, and other science/engineering disciplines
- Rising sophomores and juniors who can commit to staying in the program for 2-3 years and can participate in the summer internship program
- Students should have an interest in signal processing, communications, and software defined radios
- Students must be able to obtain a clearance - students will need to review a security questionnaire and must be a U.S. Citizen

The Hume Center for National Security and Technology at Virginia Tech, in partnership with MITRE, is recruiting students for the Artificial Intelligence/Machine Learning Workforce Development Program.

As part of this program,

- Students will work in teams on an experiential learning research project during 2021-2022 Academic Year (AY)
- Research will focus on artificial intelligence and machine learning, with topics that may correspond to emergent phenomena, multi-agent systems, and/or remote sensing
- Students will receive mentorship from MITRE & VT faculty, to include technical seminars provided by subject matter experts, and at least semestery progress updates to MITRE prepared and presented by the students
- All students in the program will earn a stipend and will work on the program for 8-12 hours per week during the academic year
- Students who successfully complete the AY will have a guaranteed summer internship with MITRE
- Upon completion of 2 semesters of research and the summer internship, MITRE will have the opportunity to offer students provisional employment, which will include starting the security clearance process and continuation in the experiential learning program at VT

**QUALIFICATIONS**

- Electrical Engineering, Computer Engineering, & Computer Science students
- VT will also consider Aerospace/Ocean Engineering, Stats, CMDA, Math, Physics, and other science/engineering disciplines
- Rising sophomores and juniors who can commit to staying in the program for 2-3 years and can participate in summer internship program
- Students should have an interest in artificial intelligence and machine learning
- Students must be able to obtain a clearance - students will need to review a security questionnaire and must be a U.S. Citizen