



Welcome to the
Consortium for Enabling Technologies & Innovation

ANNUAL WORKSHOP

The Consortium for Enabling Technologies & Innovation (ETI) is hosting its Annual Workshop at the GTRI Conference Center, Georgia Institute of Technology on November 5 & 6. Nearly 80 participants representing university partners, national laboratories, and the government are joining together to build and strengthen the research collaboration between the labs and the universities. Launched by the U.S. Department of Energy's National Nuclear Security Administration (NNSA), and directed by Dr. Anna Erickson (Georgia Institute of Technology), the consortium is committed to developing new technologies and educational programs to support the agency's nuclear science, security, and nonproliferation goals. Since the ETI kickoff meeting on April 30, 2019, extensive efforts have been put into technology R&D activities, academic program establishment, laboratory internships development and technology transfer, fellowship and summer school development, and consortium operations and management through daily/weekly/monthly communication and meetings.

Academic Program

Led by Dr. Pavel Tsvetkov (TAMU), the ETI Academic Program is establishing a multi-university online educational program supported by consortium members for students and for non-degree seeking students and professionals joining the ETI educational program through member universities. The lectures and academic activities of the program will be supported by the consortium members, including national labs and government. Monthly meetings have been organized to establish reliable points of contact at each member university and form an ETI instructional cohort of experts delivering the program content.

Graduate Student Fellowship

The ETI Consortium is offering two graduate fellowships in the following areas: (1) Machine Learning in Nuclear Security—geared toward students with an interest in neuromorphic computing applied to signal processing, and (2) Sensor Development and Data Analytics for Advanced Manufacturing Technologies—for students with an interest in developing methods to assess signatures of nuclear proliferation. Students are encouraged to apply. More details are available at

<https://eti.gatech.edu/opportunities-for-students>.

Technology Transfer

The Knowledge Transfer program between DOE National Laboratories and ETI, directed by Dr. Milton Garces (UH), is being built to facilitate cross-cutting research between national labs and ETI universities, and to promote engagements between ETI students/faculty and lab personnel, including courses, internships, mentorships, collaborations, publications, etc. The ETI National Laboratory Tag-up Workshop on October 30 was organized to summarize each national lab's focus and capability areas related to ETI activities, and to help students/faculty scope their research on specific problems and work together to ensure students are assigned to the most appropriate lab.

Summer School

ETI is committed to hosting three summer schools to merge technical trainings as identified in the three Thrust Areas: TA1 led by Dr. Paul Wilson (UW), TA2 led by Dr. Steven Biegalski (GT), and TA3 led by Dr. Raymond Cao (OSU). The challenges and policy aspects of the summer school have been addressed and discussed during the regular monthly meetings, including school time (i.e., 1 week), teaching approach, capabilities to record the presentation, national laboratories on board for content and instruction, and other courses created under the ETI umbrella.

GTRI Conference Center, Georgia Institute of Technology

250 14th Street, NW, Atlanta, GA.

November 5 & 6, 2019

<https://eti.gatech.edu>