Consortium for Enabling Technologies and Innovation

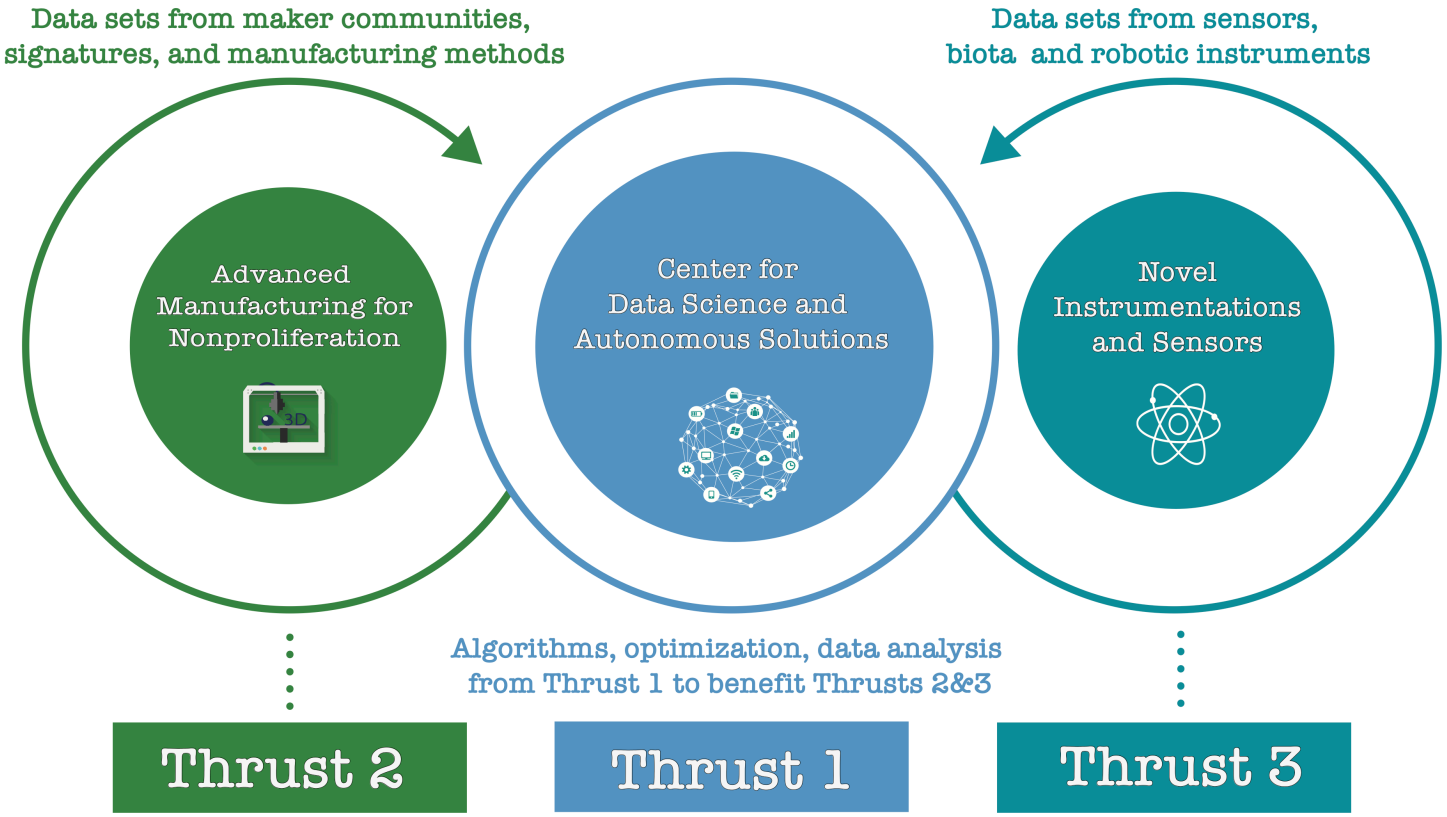
Anna Erickson

July 7-8, 2020

ETI Virtual Summer Meeting for Young Researchers

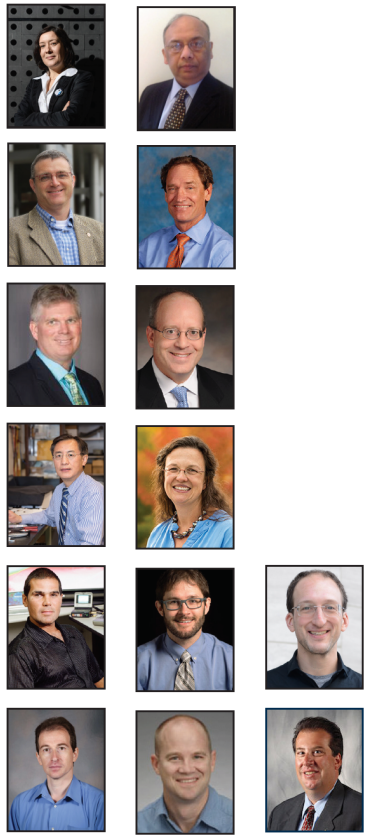
Consortium for
ENABLING TECHNOLOGIES & INNOVATION

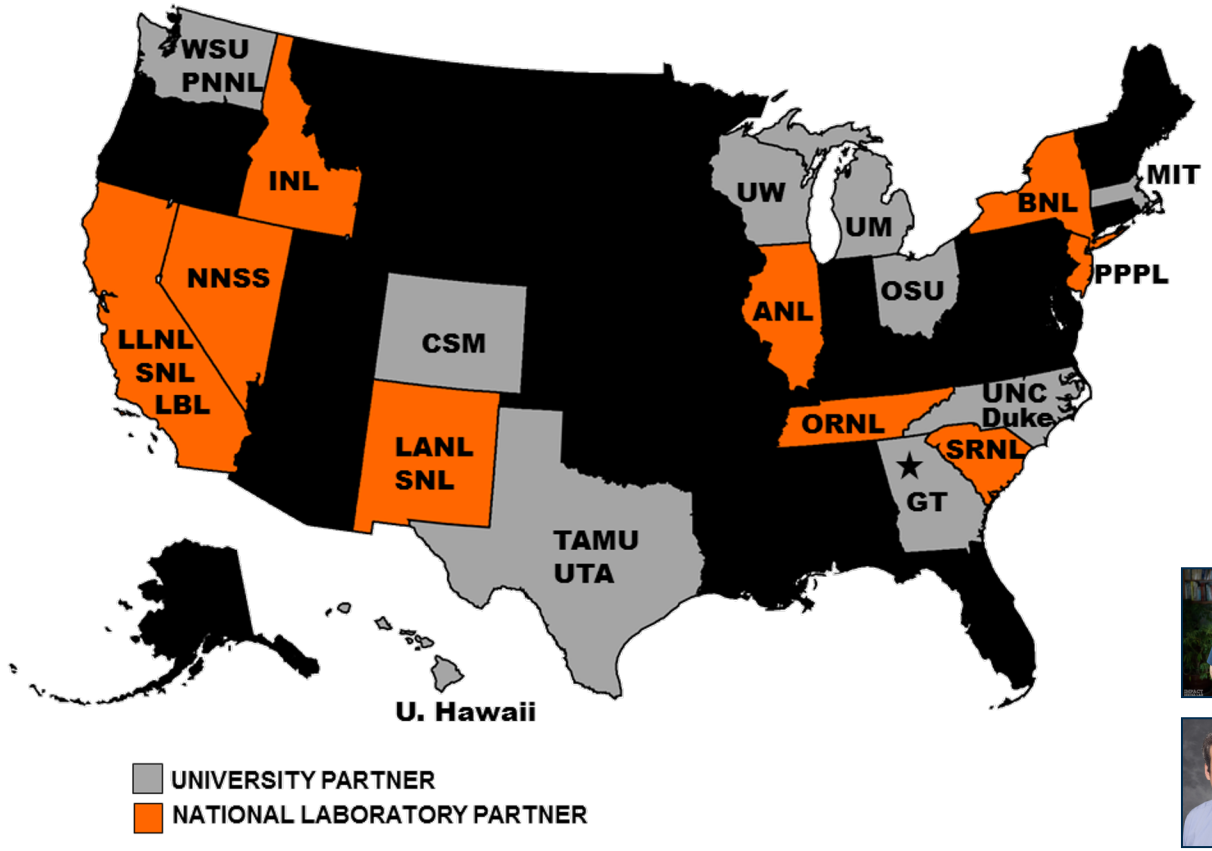
ETI Structure and objectives



- To direct the research and innovation to enable the technologies that support the NNSA's mission and to bridge the gap between the university basic research and national laboratories mission-specific applications.
- To create a research and education environment to support cross-cutting technologies across three core disciplines.
- To support education, development, and transition to national laboratories or NNSA of students and postdocs.

ETI Team




WSU
PNNL
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UNC
Duke
SRNL
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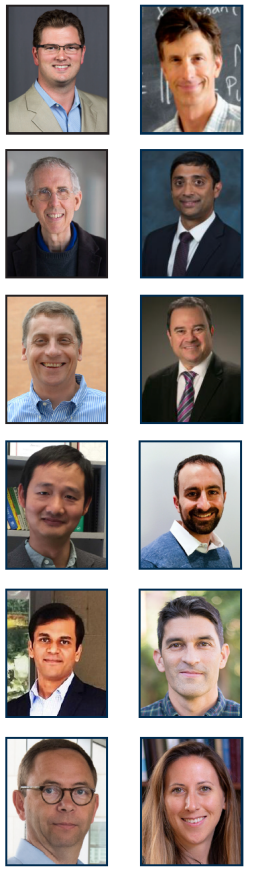
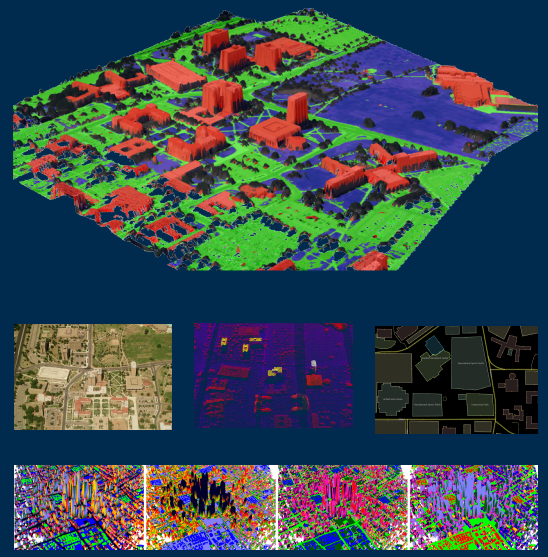
UNIVERSITY PARTNER
NATIONAL LABORATORY PARTNER



ETI Mission

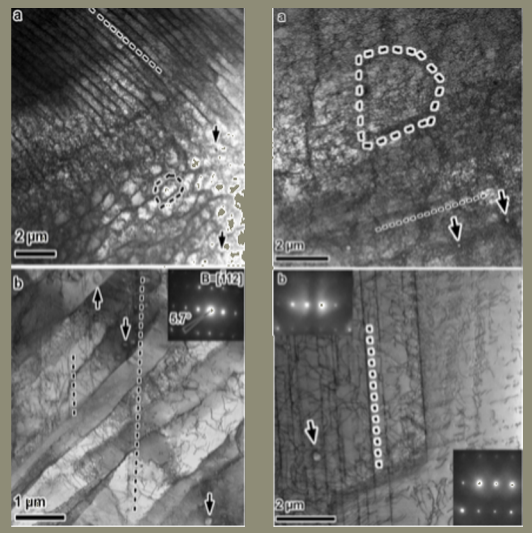
Consortium for
ENABLING TECHNOLOGIES & INNOVATION

Thrust Area 1: Computer and Engineering Sciences for Nonproliferation (CESN).
A multidisciplinary team composed of computer and data scientists, nuclear and aerospace engineers, chemists and biologists to take advantage of new-age computational and hardware capabilities in data science and remote detection.



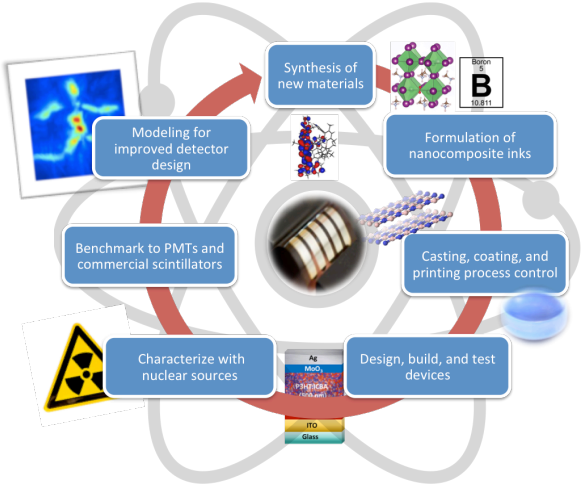
J. Fisher (MIT)

Thrust Area 2: Additive Manufacturing (AM) for Nonproliferation.
Material scientists, nuclear engineers and specialists in maker communities with a goal to address the most pressing needs in enabling technologies to determine unique signatures resulting from use of advanced manufacturing. Results will be a foundation for policy formulation to address these concerns.



D. Thoma (UW)

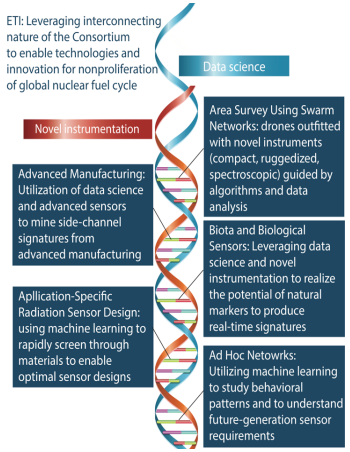
Thrust Area 3: Novel Instrumentation (NI) for Nuclear Fuel Cycle Monitoring.
The aim is to integrate into MTV Consortium solutions and national laboratories' research using expertise from nuclear engineering, material scientists, chemists and electrical and computer engineers.



B. Kippelen (GT)

Objectives of the Summer Meeting

- Exchange of research and innovation between partnering laboratories and IHEs
- Integration of cross-cutting projects
- Student presentations
- NNSA feedback
- Social interactions!

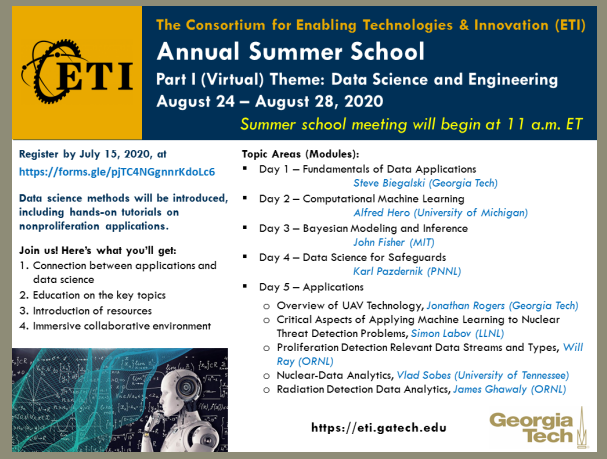


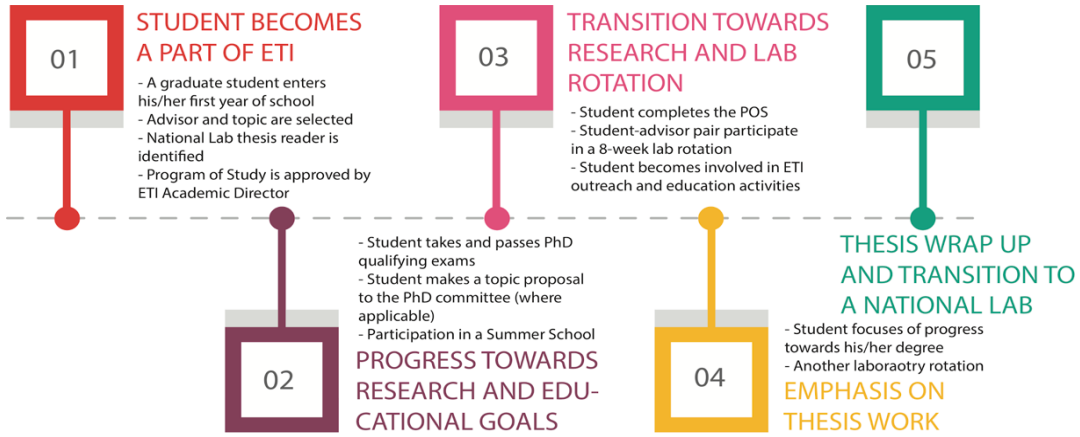
Exchange of research and innovation between partnering laboratories and IHEs

- Students and young researchers at partnering labs presenting their work

Information Exchange

- ETI is always looking for cross-cutting collaborations related to nonproliferation in nuclear fuel cycle!
- Join us for the ETI Annual Summer School (August 24-28, 2020)





Laboratory-Student Engagement Panels
What's life like at a national lab? How can we transition to a lab? How do you secure funding as a researcher at a lab?

ETI

Thank you!


Georgia Tech


COLORADO SCHOOL OF
MINES


Duke
UNIVERSITY


UNIVERSITY OF
MICHIGAN


THE UNIVERSITY
of NORTH CAROLINA
at CHAPEL HILL


THE OHIO STATE
UNIVERSITY


TEXAS A&M
UNIVERSITY


THE UNIVERSITY OF
TEXAS
AT AUSTIN


WASHINGTON STATE
UNIVERSITY


Argonne
NATIONAL LABORATORY


BERKELEY LAB


BROOKHAVEN
NATIONAL LABORATORY


INL
Idaho National Laboratory


Lawrence
Livermore
National
Laboratory


Los Alamos
NATIONAL LABORATORY
EST. 1943


OAK
RIDGE
National Laboratory


Pacific Northwest
NATIONAL LABORATORY


PPPL
PRINCETON
PLASMA PHYSICS
LABORATORY


Sandia
National
Laboratories


SRNL
SAVANNAH RIVER NATIONAL LABORATORY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NNSS
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Mission Support and Test Services


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