



DEFENSE NUCLEAR NONPROLIFERATION'S ENABLING CAPABILITIES IN TECHNOLOGY (DNN TECH) CONSORTIUM

Participant Roles and Responsibilities

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Introduction	2
What is DNN TECH?	2
What does DNN TECH do?	2
DNN TECH Participant Roles and Responsibilities.....	3
Code of Conduct	3
DNN TECH Student and Postdoctoral Fellowships and Affiliations.....	4
DNN TECH Fellows	4
DNN TECH Fellow Requirements	4
DNN TECH Affiliates	5
DNN TECH Affiliate Requirements	5
DNN TECH Faculty (and Lab Mentors).....	6
Faculty Expectations	6
TECH Area Lead Expectations	7
DNN TECH National Laboratory POC Expectations	7
Travel and Supply Reimbursement.....	7
International Travel.....	8
International Collaboration	8
Contacts/Websites	8

Introduction

What is DNN TECH?

The Defense Nuclear Nonproliferation's Enabling Capabilities in Technology (DNN TECH) Consortium is a research and development program established by the National Nuclear Security Administration (NNSA) Office of Nuclear Nonproliferation R&D (NA-22). Spanning fifteen partner universities and eight national labs, DNN TECH is headquartered at the University of Tennessee, Knoxville. Here, Professor Jason P. Hayward serves as Director and Principal Investigator.

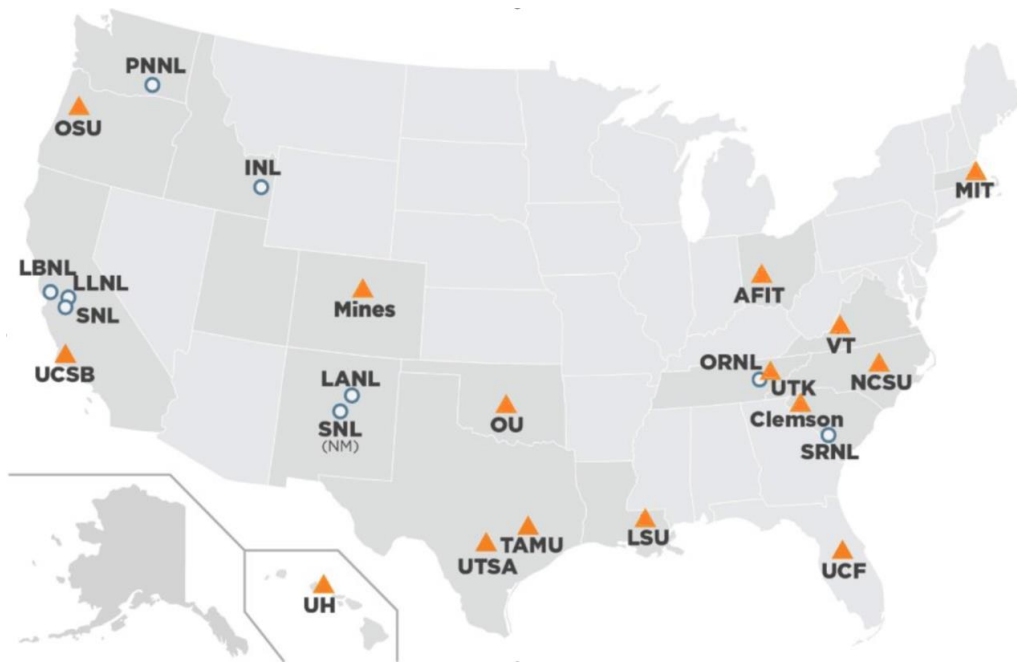


Figure 1. Partner Institutions

What does DNN TECH do?

DNN TECH's primary goals supporting NNSA's Nonproliferation mission are twofold. First, TECH was formed to create and apply novel scientific understanding towards strengthening NNSA's nonproliferation capabilities. TECH's second major goal is to train, through academic and hands-on experience, a pool of highly skilled experts prepared to address emerging nonproliferation challenges at NNSA national laboratories.

These goals are organized and executed through six TECH Areas, shown in Figure 2.

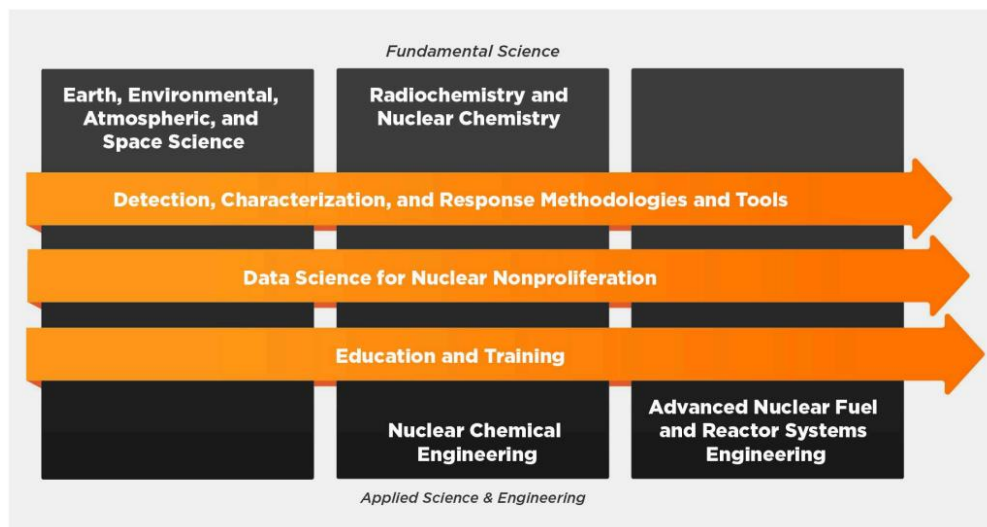


Figure 2. TECH Areas

Organized by TECH's Project Management Plan (PMP) and through our six TECH Areas, participants (TECH Fellows, Affiliates, Faculty and lab SME's and Mentors) will support the consortium's achievement of its goals and objectives.

DNN TECH Participant Roles and Responsibilities

Code of Conduct

Participants (Fellows, Affiliates, Faculty, Lab Mentors) are required to adhere to the codes of conduct set forth by their host institution. Participants must familiarize themselves with their institution's ethical guidelines and conduct themselves accordingly throughout the duration of their association with DNN TECH.

Any personnel conducting research or visiting the national laboratories for summerschools, workshops, or other events should always be aware of and adhere to national laboratory guidelines and policies.

Participants are additionally expected to uphold DNN TECH's reputation, integrity, and educational purposes of attracting and developing the next generation of DOE/NNSA mission-supporting professionals. All participants should conduct themselves professionally and respectfully with this objective in mind, including but not limited to when attending conferences, research meetings, and other DNN TECH or DNN TECH-related professional events.

Failure to comply with the requirements outlined above may result in loss of funding.

DNN TECH Student and Postdoctoral Fellowships and Affiliations

As a DNN TECH Fellow or Affiliate, you will be provided with numerous opportunities for research, education, training, and networking. Opportunities include participating in DNN TECH events including summer schools, workshops, and research meetings, such as the University Program Review (UPR) and the DNN TECH Advisory Board Meeting and Workshop. You will receive opportunities regarding research, internships, fellowships, and training programs, and be enabled to connect with the DNN TECH national laboratory network.

DNN TECH Fellows are student or postdoctoral researchers directly supported by the consortium. This may include receiving pay, stipends, and benefits such as health insurance or tuition.

Continuation funding is contingent upon: (1) availability of funds; (2) satisfactory progress towards meeting the fellowship objectives; (3) submission of required reports; and (4) compliance with the fellowship requirements, terms, and conditions.

DNN TECH Fellow Requirements

- All Fellows are required to be US citizens or permanent residents.
- All Fellows are required to have, in addition to their academic advisor, an NNSA-mission-aware national laboratory mentor from one of our eight partner labs during the period DNN TECH support is provided. *This is optional, but encouraged, for undergraduate and postdoctoral researchers.*
- All Fellows are required to participate in at least one eight-week-minimum internship experience with one of our eight national laboratory partners. *This is optional, but encouraged, for undergraduate and postdoctoral researchers.*
- All Fellows are required to attend at least one DNN TECH Summer School or workshop. *This is optional, but encouraged, for undergraduate and postdoctoral researchers.*
- Fellows are strongly encouraged to participate in annual UPR meetings and the Advisory Board Meeting and workshops and are required to attend if nominated and selected to present.
- Fellows are required to attend DNN TECH students meetings unless they conflict with other required commitments (classes, internship commitments, etc)
- Fellows are required to respond to data surveys or requests for information from DNN TECH regarding your research, education, training and/or experience as a DNN TECH-funded student.
- Fellows are required to acknowledge DNN TECH in any supported work products and submit publications according to the instructions in DNN TECH's [Publications Guidance Document](#).
- If at anytime you are employed by another source (e.g., summer internship, teaching assistant, etc.), you are required to report this employment to DNN TECH. Your fellowship stipend is subject to adjustment per federal and individual university policy.

- Fellows are required to notify DNN TECH (either through your academic advisor or directly to DNN TECH's program manager) of your career status upon completion of the program.
- Fellows are expected to dress business casual at minimum when delivering oral or poster presentations representing DNN TECH.

Failure to comply with the requirements outlined above may result in loss of funding.

DNN TECH Affiliates are those who do not receive such support from the consortium but may instead benefit from consortium funds or programs in other ways, e.g., through consortium affiliated internships, summer programs, or research meetings.

DNN TECH Affiliate Requirements

- All Affiliates are required to have, in addition to their academic advisor, an NNSA-mission-aware national laboratory mentor from one of our eight partner labs during the period of affiliation with DNN TECH.
- Affiliates are required to respond to data surveys or requests for information from DNN TECH regarding your research, education, training and/or experience related to DNN TECH funded work.
- Affiliates are required to acknowledge DNN TECH in any DNN TECH funded work products they may collaborate on and to submit publications according to the instructions in this DNN TECH [Publications Submissions Guidance Document](#).
- Affiliates are required to notify DNN TECH (either through your academic advisor or directly to DNN TECH's Program Manager) of your career status upon completion of the program.
- Affiliates are expected to dress business casually at minimum when delivering oral or poster presentations representing DNN TECH.

Failure to comply with the requirements outlined above may result in loss of affiliation.

DNN TECH Faculty (and Lab Mentors)

Joint mentorship of fellows and affiliates by faculty and laboratory SMEs is a foundational component of the consortium. Mentors are expected to commit to fostering an environment in which fellows and affiliates are enabled to develop as scholars and produce their best work in support of DOE/NNSA nonproliferation.

Therefore, mentors are expected to maintain awareness of their fellow and affiliates progress towards achieving the consortium's educational purposes, including achieving degrees and fostering academic collaborations and professional development in line with supporting DNN TECH and DOE/NNSA's objectives.

Faculty Expectations

- Faculty are expected to ensure that fellows and affiliates fulfill their conditions of DNN TECH participation (please familiarize yourself with the fellow and affiliate section).
- Faculty are expected to ensure that their DNN TECH fellows and affiliates are excelling in their individual degree programs. *DNN TECH may request information pertaining to this near the end of BP2.*
- Faculty are required to respond to data surveys or requests for information from DNN TECH's program manager or executive team regarding any projects, research, education, and training that is funded by DNN TECH.
 - This includes but is not limited to quarterly research, personnel, and other success metrics reporting that will be administered by the program manager.
- Faculty are expected to attend DNN TECH monthly meetings and to share updates when they are requested.
- Faculty are expected to promptly notify the program manager and/or executive team of any fellow and affiliate performance issues that conflict with their consortium commitments.
- Faculty are expected to ensure that lab mentors are actively introducing fellows and affiliates to national lab nonproliferation related work and opportunities for further engagement.
- Faculty are required to acknowledge DNN TECH in any supported work products and to submit publications according to the instructions in this DNN TECH [Publications Submissions Guidance Document](#).

TECH Area Lead Expectations

- Area Leads are expected to prepare and collect area-specific information to **represent their research areas** in:
 - DNN TECH monthly meetings,
 - Annual UPR meetings, and
 - DNN TECH's Annual Advisory Board Meeting and Workshop.

If unable to attend, Leads are expected to rely on Deputies or other Faculty in their areas to represent them.

- Area Leads are expected to maintain awareness of research occurring within their respective areas to support DNN TECH's efforts to produce quality, novel research.
- Area Leads are encouraged to lead in planning the technical content of relevant DNN TECH summer schools and workshops.

DNN TECH National Laboratory POC Expectations

- Communicate mission needs and lab opportunities to the consortium
- Supporting internship placements as able for those students interested in your labs
- Supporting summer schools and workshops that are agreed to take place at the relevant national lab
- Coordinate identification of appropriate national laboratory mentors when needed
- Provide budget requests to DNN TECH for input to NNSA
- Attend UPR, Annual Program Reviews and Faculty/Lab POC meetings

Travel and Supply Reimbursement

DNN TECH participants may have the opportunity to travel or purchase supplies. For such opportunities, please coordinate with your home institution's DNN TECH Co-PI and administrative staff. Travel and supply reimbursement must be in accordance with the policy guidelines required by your home institution and the DNN TECH award terms and conditions.

International Travel

All international travel using DNN TECH award funds must be pre-approved by the NNSA and must follow the 'Fly America Act' per award policy. You may fill out the [international travel request form](#) and submit it to DNN TECH for consideration. Travel arrangements should not be made prior to receiving written approval.

University of Tennessee, Knoxville participants should refer to the [Department's Travel Guide](#).

International Collaboration

No DNN TECH funds may be provided to individuals who are neither US citizens nor permanent residents. Collaborations which exclude this provision of funds with such individuals may possibly be granted. DNN TECH faculty can submit requests to DNN TECH using the foreign collaboration request form on DNN TECH's [resources page](#).

Contacts/Websites

UTK Program Manager: aproksch@utk.edu

DNN TECH LinkedIn: <https://www.linkedin.com/company/dnn-tech-consortium>

DNN TECH Website: [DNN TECH | The University of Tennessee, Knoxville](#)