Nuclear Science and Security Consortium

Fall 2024 Newsletter

NSSC

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Letter from the NSSC Director

Prof. Jasmina Vujic
University of California, Berkeley

Dear NSSC Community and Friends,

As Director of NSSC, I am pleased to present some of the remarkable milestones and advancements our Consortium has achieved over the past year.

At the core of our success, the NSSC fellowship program continues to **attract and nurture top-tier talent** from a **diverse pool of candidates**. Our scholars benefit from **intensive academic guidance** and **mandatory mentoring from the national laboratories**, ensuring their growth and development in the field. With over a decade of dedication, the NSSC has cultivated a **vibrant network of alumni** who are making significant contributions within the DOE National Laboratories, Academia and Industry.

Building on our foundation, in NSSC3, we've continued to strengthen our network of current scholars and alumni. Our **2023 Fall Workshop**, held at Lawrence Berkeley National Laboratory (LBNL) on October 17-18, **featured an Alumni Panel**, highlighting the success of our former students. Many of our **current scholars are working alongside NSSC alumni** who now serve as experts in the field and mentors at our partner laboratories.

Our commitment to providing students with a **robust foundation in core nuclear sciences** before their **specialization in applied fields** remains unwavering. This approach emphasizes comprehensive education in **nuclear physics, nuclear data, nuclear chemistry, radiochemistry, and nuclear materials science**. Such solid groundwork prepares our fellows for advanced specializations such as **radiation detection, instrumentation development, nuclear chemical engineering, reactor design, and computational optimization for nuclear applications**.

Letter from the NSSC Director

Prof. Jasmina Vujic
University of California, Berkeley

Since our **establishment in 2011**, NSSC has engaged and supported **713 individuals,** including undergraduates, graduate students, postdoctoral researchers, specialists, and faculty. Our collective efforts have resulted in **437 degrees awarded**, **296 prestigious accolades** received, **491 peer-reviewed publications**, and **over 1900 oral and poster presentations**. Notably, 170 of our students and postdocs—**42%** of our program's graduates—**have secured positions within the U.S. DOE National Laboratories and other prominent government agencies**.

As I reflect on this year's achievements, I remain deeply inspired by the **exceptional contributions of our NSSC community**. The dedication demonstrated by our scholars, faculty, and staff has been crucial in advancing our mission. Your collective efforts have not only elevated our consortium but have also made **significant contributions to the field of nuclear security**. As we move forward, let us build on these successes and continue to **push the boundaries of innovation and excellence in this critical domain**.

— Jasmina Vujic

NSSC Leadership Team

Executive Team

Jasmina Vujic
Director
UC Berkeley

Jason Hayward
Deputy Executive Director
UT Knoxville

Bethany Goldblum
Executive Director
UC Berkeley

Lee Bernstein
Lab Liaison
UC Berkeley

Kai Vetter
NNSA Liaison
UC Berkeley

Support Staff

Derek Johnson
Financial Analyst

Ava Benkhatar
Program Manager

POC Council

Jason Hayward (*UTK*)	**Christopher Cahill** (*GWU*)	**Ken Czerwinski** (*UNLV*)	**Djamel Kaoumi** (*NCSU*)	**Juan Manfredi** (*AFIT*)	**Anil Prinja** (*UNM*)
Cody Folden (*TAMU*)	**Sean Liddick** (*MSU*)	**Angela Di Fulvio** (*UIUC*)	**Mani Tripathi** (*UCD*)	**Tomi Akindele** (*LLNL*)	**Vladimir Mozin** (*LLNL*)
Tom Stockman (*LANL*)	**Shawn Tornga** (*LANL*)	**John Valentine** (*LBNL*)	**David Peters** (*SNL*)	**Jon Zimmerman** (*SNL*)	**Ben Thomas** (*ORNL*)

Advisory Board

Carol Burns-Chair
Lawrence Berkeley National Laboratory

Trish Baisden
Retired from Lawrence Livermore National Laboratory

Roger Falcone
University of California Berkeley

Miriam "Mim" John
Retired from Sandia National Laboratories

Ibo Matthews
Lawrence Livermore National Laboratory

Kary Myers
Los Alamos National Laboratory

Jason Newby
Oak Ridge National Laboratory

Benn Tannenbaum
Sandia National Laboratories

The Mission of the NSSC

The NSSC has two primary objectives: (i) develop world-class nuclear scientists and engineers with expertise in the critical disciplines required for careers at U.S. DOE National Laboratories and other nuclear-related fields, and (ii) provide innovative concepts, technologies, and ideas to the labs in support of the NNSA DNN R&D mission. Our Consortium brings an end-to-end approach, by attracting and training exceptional students, connecting them with research in relevant nuclear disciplines, and facilitating their transition to careers in national and nuclear security.

NSSC Fellowships are awarded on the basis of academic merit, demonstrated competence in relevant research areas, and in-person interviews.

Our scholars are our greatest asset!

NSSC3 Focus and Crosscutting Areas

Nuclear Physics and Nuclear Data

Barabara Jacak (UCB), Lee Bernstein (UCB), Sean Liddick (MSU)

Radiochemistry and Nuclear Chemistry

Rebecca Abergel (UCB) and Ken Czerwinski (UNLV)

Nuclear Material Science

Peter Hosemann (UCB) and Jim Stubbins (UIUC)

Radiochemistry and Nuclear Chemistry

Kai Vetter (UCB) and Jason Hayward (UTK)

Nuclear and Chemical Engineering

Massimiliano Fratoni (UCB) and Raluca Scarlat (UCB)

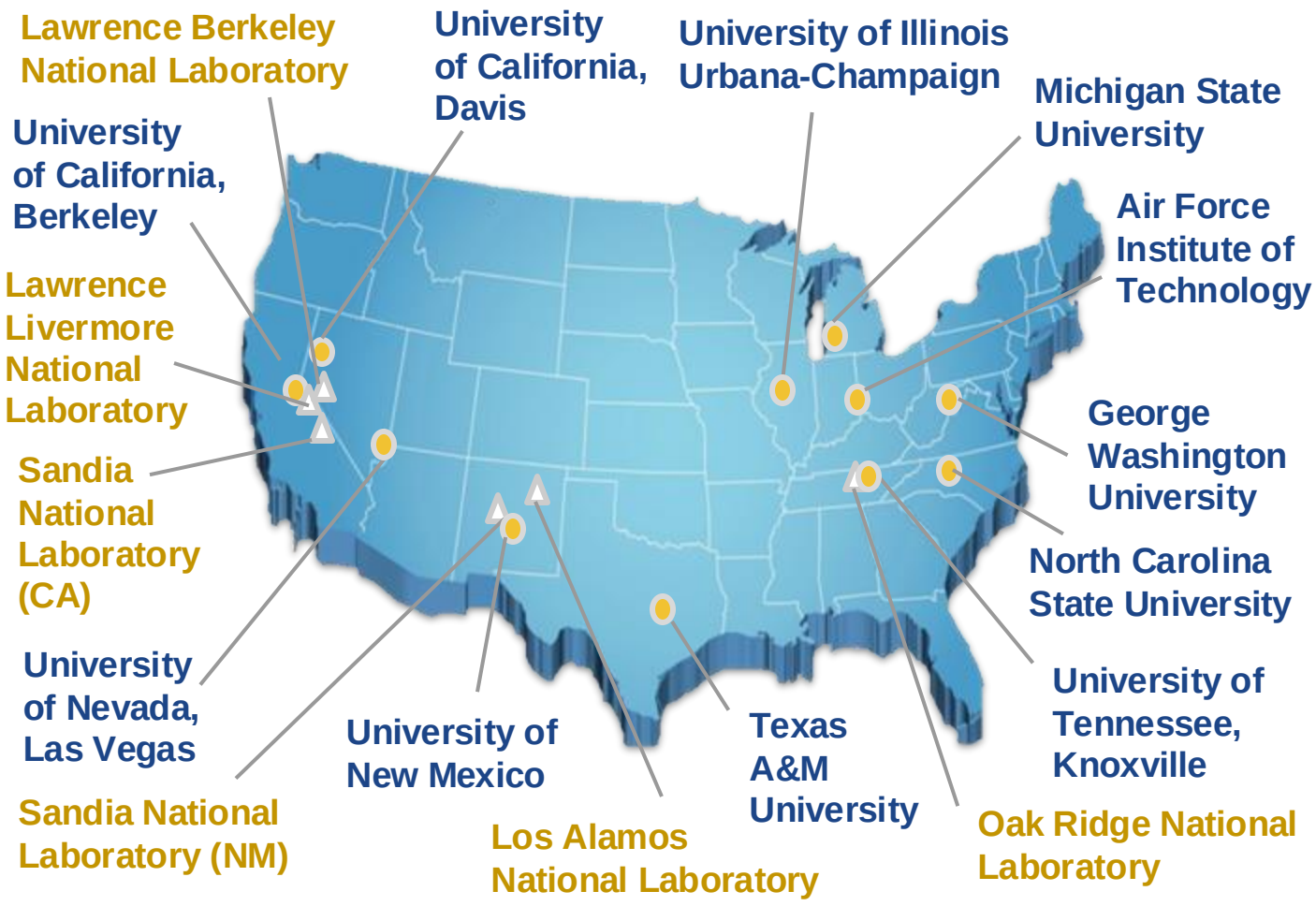
Computing and Optimization in Nuclear Applications

Vladimir Sobes (UTK) and Sandra Bogetic (UTK)

Education in Nuclear Science, Technology, and Policy

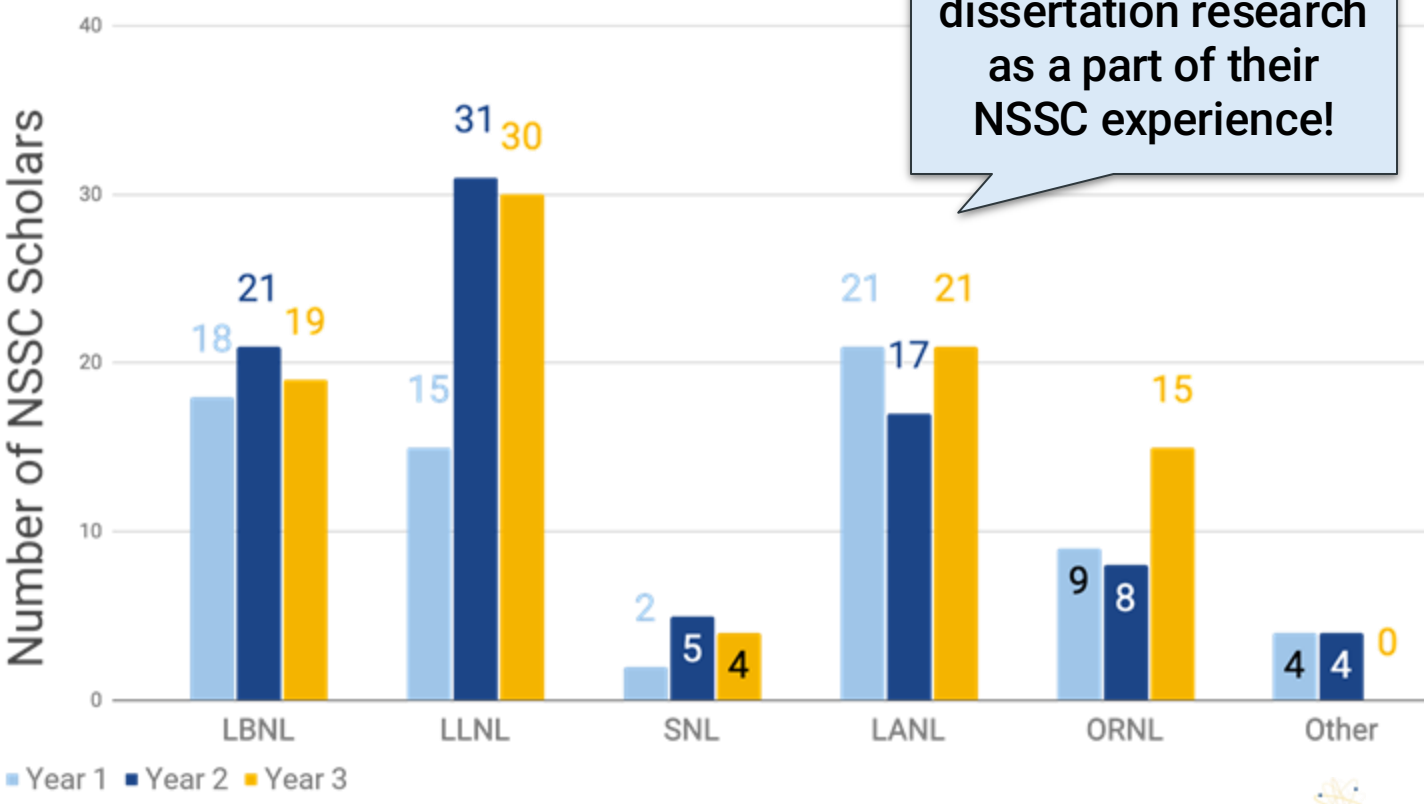
Bethany Goldblum (UCB)

Partner Institutions and Laboratories



NSSC3 In-Residence Research by Lab

Many of our scholars conduct lab-led dissertation research as a part of their NSSC experience!



2023 NSSC Fall Workshop and Advisory Board Meeting

Hosted at Lawrence Berkeley National Laboratory on Oct. 17-18

The NSSC held the *2023 Fall Workshop and Advisory Board Meeting* this October 17-18, at LBNL in Berkeley, California. This two-day event featured updates on NSSC programs and accomplishments, 13 student oral presentations, a poster session with 18 presenters, an NSSC alumni panel, and an interactive feedback session with our Advisory Board Members. A total of 78 participants, including faculty and students from 11 universities, scientists from our five partner labs, and members of the NSSC External Advisory Board attended the in-person event, with several others participating in the workshop virtually.

Alumni Panelists with NSSC Leadership, Back row: Lee Bernstein (UCB), Sandra Bogetic (UTK), Krystin Stiefel (ORNL); Front row: Austin Mullen (LANL), Bethany Goldblum (UCB), Jasmina Vujic (UCB), Tomi Akindele (LLNL).

NSSC Fellow, Jared Justice from the Department of Nuclear Engineering at the University of New Mexico, presenting on the physical properties of Cu/Nb nanolamellar composites.

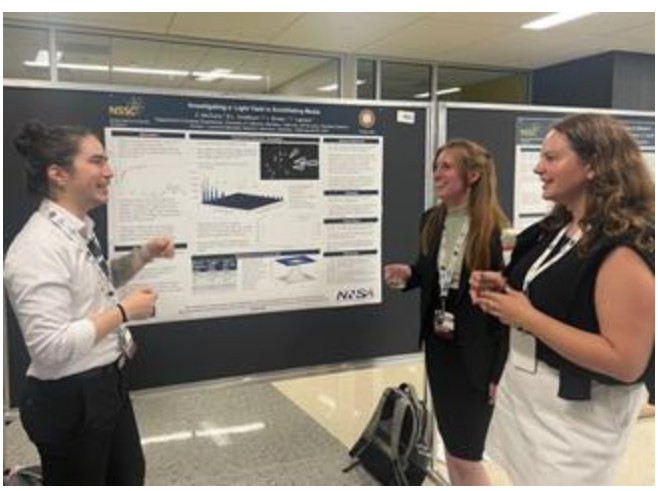
2024 University Program Review

Hosted by Texas A&M University at College Station

The NSSC community participated in this year's University Program Review (UPR) at Texas A&M University, College Station. The event was held on June 4-6, 2024, and featured 15 oral presentations and 25 poster presentations from NSSC scholars.

Three NSSC Scholars were awarded for their research: James Kingston (UCD) for Best National Lab Collaboration; Jacob Fritchie (UIUC) for Best Poster Presentation; and Noah Walton (UTK) for Best Oral Presentation.

NSSC UPR Presentation Awardees. Left to Right: James Kingston (UCD), Jacob Fritchie (UIUC), and Noah Walton (UTK)



NSSC Fellows from UCB discussing a poster presentation on the electron light yield of scintillating media. Left to Right: Zachary McGuire, Megan Schiferl, Sasha Kennedy

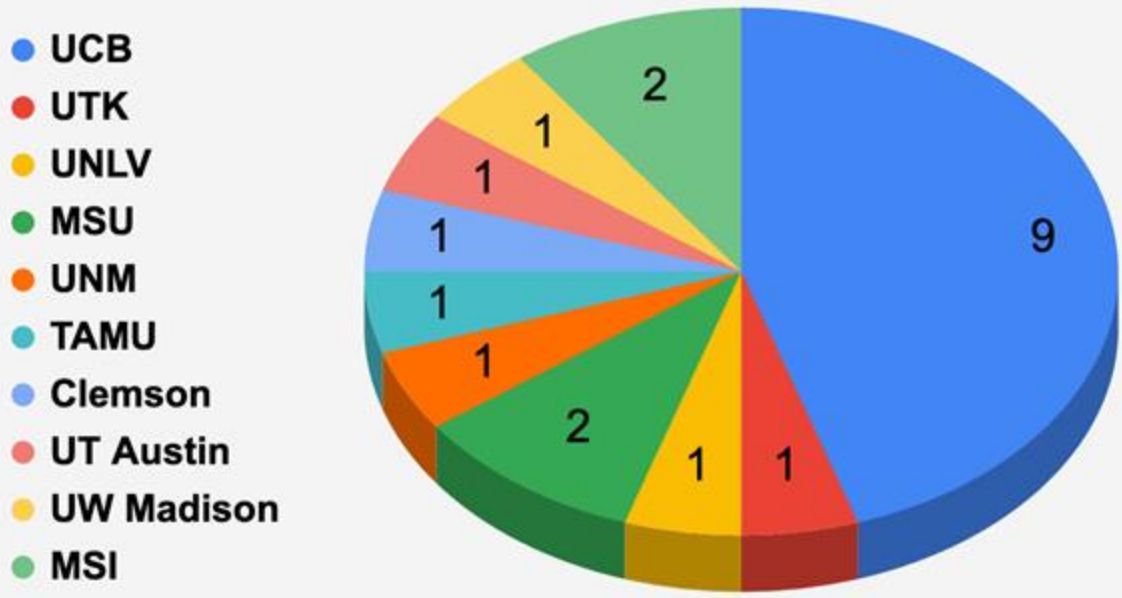
NSSC Fellow, Lavanya Upadhyaya from Texas A&M University, presenting her work corrosion of steel alloys in molten salt

2024 NSSC-LLNL Nuclear Security Summer School

★ New Initiative for 2024 ★

Building on the success of the 2023 NSSC-LLNL Consortia Workshop, the NSSC and LLNL introduced a 4-day summer school this year that immersed 20 students in the laboratory's cutting edge research environment. The program included lectures, tours, and hands-on experimental modules tackling challenges in warhead verification, emergency response, and nuclear forensics. Students also had the opportunity to connect with their peers and LLNL scientists from various directorates through informal interactions and organized networking events.

2024 Participants



This summer school was made available to students from all 4 DNN R&D consortia and included 20 Participants from 10 Universities and MSIs!

2024 Nuclear Security and Nonproliferation Program

Amy Waters, LLNL Program Manager for Nuclear Threat Reduction pictured giving a talk on "Nuclear Threat Reduction at LLNL."

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The program also featured additional talks, lectures, and presentations from Tomi Akindele, Amy Waters, Dawn Shaughnessy, Tom Ramos, Jessica Mintz, Jay Dixon, Lee Glascoe, Greg Brennecka, Brian Sammis, Meena Said Ashley Cocciadiferro and Laboratory Director, Kim Budil.

Team of scholars from the 2024 NSSC-LLNL Summer School cohort participating in discussions during the Treaty Verification module.

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During the program, participants had the opportunity to work with a team of their peers to plan, discuss, execute, and negotiate activities related to the NNSA R&D nuclear security and nonproliferation mission.

LLNL Scientist, Jessica Mintz, leading the Emergency Response module outside of the LLNL "Dome."

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During the program, participants also had the opportunity to engage in a hands-on emergency incident response activity using neutron and gamma-ray detection devices to actively interrogate simulated radiological sources and nuclear materials.

2024 NSSC-LLNL summer program cohort on a tour of LLNL's National Ignition Facility (NIF).

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The program also featured additional tours of LLNL's Nuclear and Chemical Sciences laboratories and the LLNL Advanced Manufacturing Laboratory (AML) .

2024 Summer School Programs

NSSC-Affiliated Summer Schools

PPNT Bootcamp at IGCC

The Public Policy and Nuclear Threats (PPNT) Boot Camp is a workshop hosted by the Institute on Global Conflict & Cooperation (IGCC) at UC San Diego. Jointly led by AMB Linton Brooks and NSSC Executive Director Prof. Bethany Goldblum, the PPNT Boot Camp prepares students and early-to-mid career professionals to take on the mantle of U.S. nuclear policymaking by helping to bridge the physical and social sciences through facilitating cross-disciplinary discussions aimed at addressing technical and international policy challenges related to nuclear weapons issues.

NDA Safeguards Course at LANL

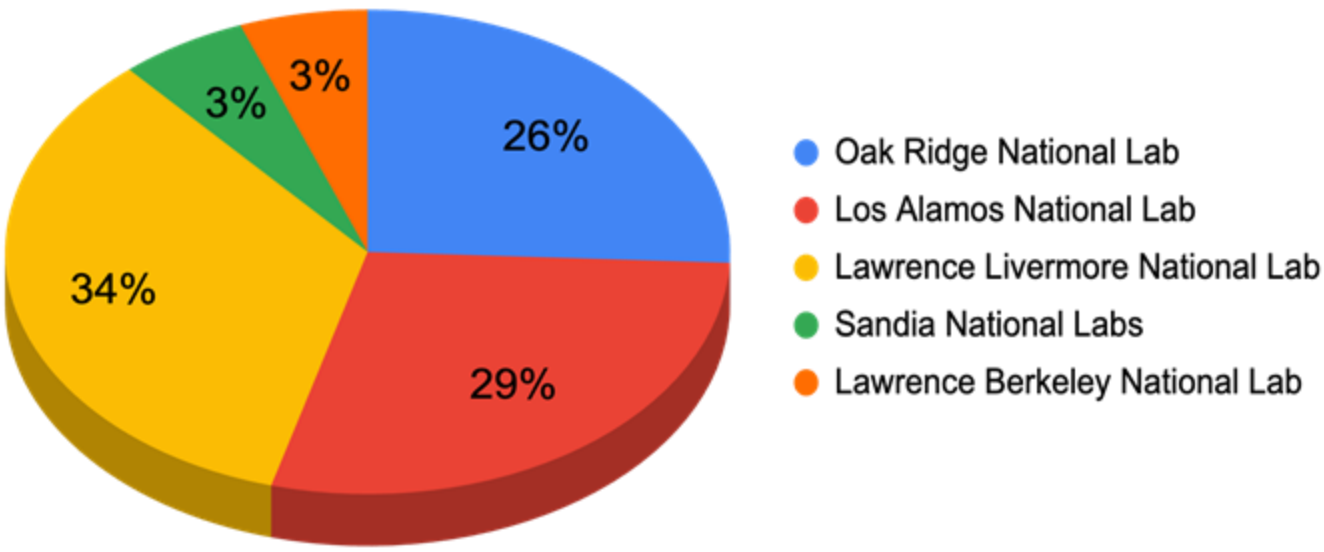
Held at Los Alamos National Laboratory (LANL), Fundamentals of Non-Destructive Assay (NDA) is an introductory course on NDA measurement techniques that are used for nuclear material accountancy by the International Atomic Energy Agency.

The course provides students with a **unique opportunity to perform NDA measurements in LANL's training facility** using a variety of NDA instruments and several types of neutron-based detectors – on a variety of nuclear materials.

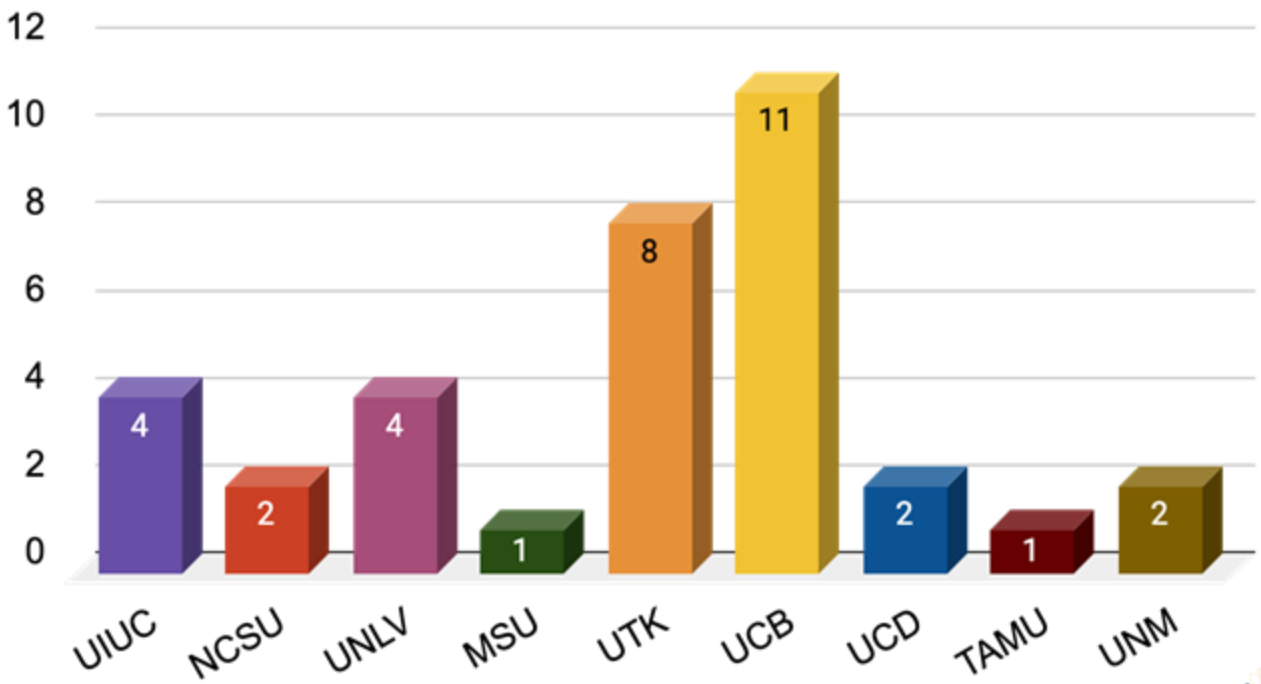
2024 NSSC Laboratory Internships

The 2024 NSSC National Laboratory internship cycle began on June 19, 2024. **Thirty-four NSSC scholars** from nine **NSSC universities** attended a laboratory internship at one of our five partner national laboratories where they conducted research on-site with a lab mentor.

2024 Laboratory Internship Participation by Laboratory



2024 Laboratory Internship Participation by University



Lena Korkeila (UCD)

Lab Mentor: Nikolas Economy (LANL)

I was able to work with the Nuclear Smuggling Detection and Deterrence group, which works with partner countries to detect, disrupt, and investigate the smuggling of radioactive and nuclear materials that could be used in acts of terrorism. For my summer project, I performed simulations to generate radiological signatures of materials of interest that will be used to evaluate a new alarm software for radiation portal monitors. I have really enjoyed my time at LANL gaining exposure to this field as well as being able to tour so many different parts of the lab through the Keepin program.

Jacob Sebastian (UCB)

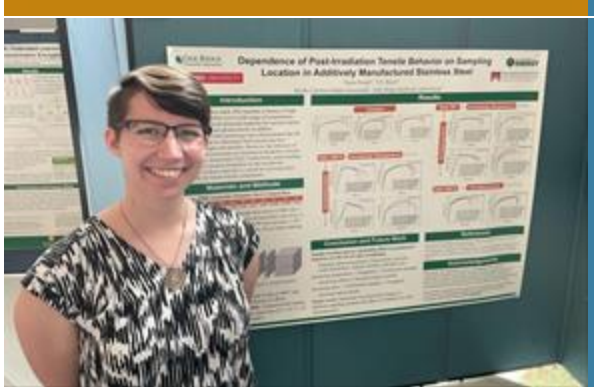
Lab Mentor: Josh Brown (LBNL)

I'm working towards an experiment at the 88-Inch Cyclotron at Lawrence Berkeley National Laboratory to measure the temporal response of fluorescence produced by neutron interactions in plastic scintillators. This summer with the aid of the NSSC, I was able to attend the 17th International Conference on Scintillating Materials and their Applications (SCINT 2024) to present a poster on our measurements and methodology.

Jared Justice (UNM)

Lab Mentor: Andrew Hoff (LLNL)

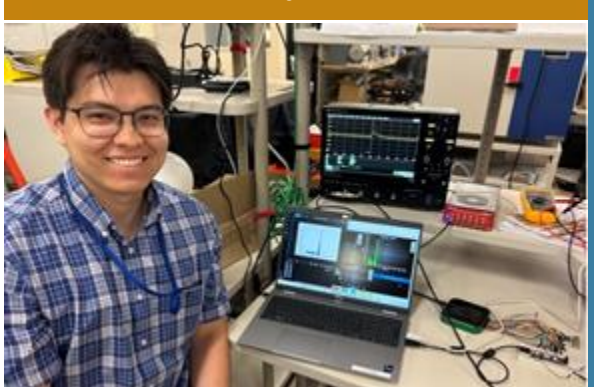
This Summer, I enjoyed returning to Lawrence Livermore National Laboratory for my third internship! I worked with Dr. Andrew Hoff in the Materials Engineering Division, Ceramics and Polymers Group. I've gotten hands-on experience in advanced manufacturing of metals and ceramics at LLNL's Advanced Manufacturing Lab.



Kara Krogh (NCSU)

Lab Mentor: TS Byun (ORNL)

I worked in the Radiation Effects and Microstructure Analysis group on analyzing mechanical property data for additively manufactured stainless steel. This research allowed me to gain a deeper understanding of structural nuclear materials and the methods used to improve them for advanced reactor applications. One of the most impactful aspects of this internship was meeting scientists both inside and outside of the group I worked in which provided me with valuable insights into the wide range of research happening at ORNL.



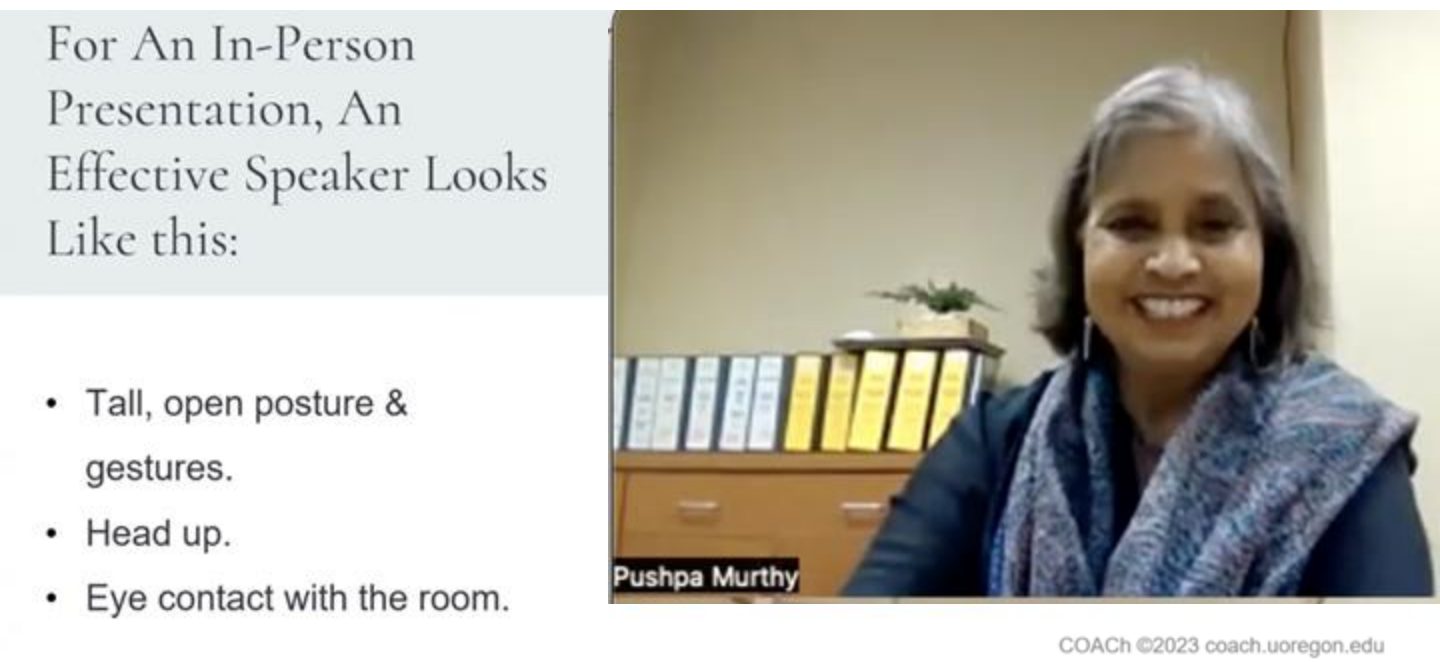
John Leland (UIUC)

Lab Mentor: Erik Brubaker (SNL)

My project focuses on the development and demonstration of FPGA-based readout of SiPM arrays, to lower cost and reduce development timelines for detection and imaging systems for nuclear non-proliferation applications. Specifically, I am working on implementing a time-to-digital converter (TDC) on an FPGA. What I've enjoyed most this summer is being able to learn new skills and experience what working at a national lab is like.

Webinars & Seminars

This year, alongside our regular programming and collaborative events with the Berkeley Risk and Security Laboratory (BRSL), the Berkeley Institute of International Studies (IIS), and the Nuclear Policy Working Group (NPWG), we also instituted a new Professional Development Workshop Series with the COACh program. Thus far, students participated in two segments of this series: "The Art of Negotiation" and "Effective Scientific Presentations." To prepare our scholars to present their scientific research at conferences and program review meetings, all 15 of our NSSC UPR oral presenters participated in this professional development training.



NSSC Student Highlights

Hannah Berg (MSU)

Hannah Berg is an NSSC Fellow at MSU using the β-decay Oslo technique to create more accurate nuclear data for use in simulations and models. In Fall 2023, Hannah received the APS-DNP Award for Young Scientist Publications. Her paper, "Proton Shell Gaps in N=28 Nuclei from the First Complete Spectroscopy Study with the FRIB Decay Station Initiator," included collaborations with NSSC universities and a range of partner laboratories: LANL, LLNL, ORNL, MSU, UCB, and UTK.

Focus Area: Nuclear Physics and Nuclear Data

NSSC Advisor: Artemis Spyrou (MSU)

Lab Mentor: Darren Bleuel (LLNL)

Peter Boone (UCB)

Peter Boone is an NSSC Fellow at UCB working to provide next-generation reference materials for spatially resolved microanalytical measurements important to post-detonation nuclear forensics. This Spring, Peter published a peer-reviewed article in *Materials Letters*. He also received the Silver Award from LLNL's Global Security Principal Directorate. Peter completed his MS degree in August 2024 and returned to LLNL as a full-time analytical chemist.

Focus Area: Radiochemistry and Nuclear Chemistry

NSSC Advisor: Peter Hosemann (UCB)

Lab Mentos: Dave Weisz and Brett Isselhardt (LLNL)

NSSC Student Highlights

Focus Area: Radiation Detection

NSSC Advisor: Mariya Zhuravleva (UTK)

Lab Mentor: Ken McClellan (LANL)

Kimberly Pestovich (UTK)

Kimberly Pestovich is an NSSC Scholar at UTK conducting research on novel scintillators for high energy x-ray radiography applications. In Fall 2023, she received first place in the Graduate Collegiate Rapid Fire competition at the Society of Women Engineers conference. Kimberly also received numerous awards from UTK's Materials Science Engineering department this year and had a paper published in the Journal of Crystal Growth on "Crystal growth of new high light yield halide perovskite scintillator $RbSrI_3$."

Matthew deJong (NCSU)

Matt deJong is an NSSC Fellow at NCSU developing laser powder bed systems to determine how variations in feedstock preparations influence the quality of structural materials. This summer, he returned to Oak Ridge National Laboratory for the third year as an intern under the mentorship of Dr. Souyma Nag. In addition to his internships at ORNL, Matt also attended the LANL NDA Summer School and the 2024 NSSC-LLNL Nuclear Security and Nonproliferation Summer School.

Focus Area: Nuclear Materials Science

NSSC Advisor: Djamel Kaoumi (NCSU)

Lab Mentor: Souyma Nag (ORNL)

NSSC Student Highlights

Focus Area: Computing and Optimization in Nuclear Applications

NSSC Advisors: Jasmina Vujic (UCB) and Anil Prinja (UNM)

Lab Mentor: Patrick Brantley (LLNL)

Dominic Lioce (UCB)

Dominic Lioce is an NSSC Fellow at UCB working on modeling radiation transport in stochastically mixed materials that occur in inertial confinement fusion applications. This Spring, he published a paper in collaboration with LANL on the design of experiments to spectroscopically characterize radiation flow in stochastic media. After previously attending summer internships at both LANL and SNL, Dominic will also be participating in this year's internship cycle at LLNL under the mentorship of LLNL scientist Dr. Patrick Brantley.

Lavanya Upadhyaya (TAMU)

Lavanya Upadhyaya is an NSSC Fellow at TAMU researching the various interactions between metal alloys and the molten salt FLiNaK (LiF-KF-NaF) in Molten Salt Reactors (MSRs), and how corrosion rates vary based on the alloys' chemical compositions. This summer, she will be interning at ORNL under the mentorship of ORNL scientist Dr. Sunil Chirayath. Lavanya has also previously participated in an internship cycle at LLNL and the 2023 NSSC INDAT Summer School hosted by UC Davis.

Focus Area: Nuclear and Chemical Engineering

NSSC Advisor: Cody Folden (TAMU)

Lab Mentor: Sunil Chirayath (ORNL)

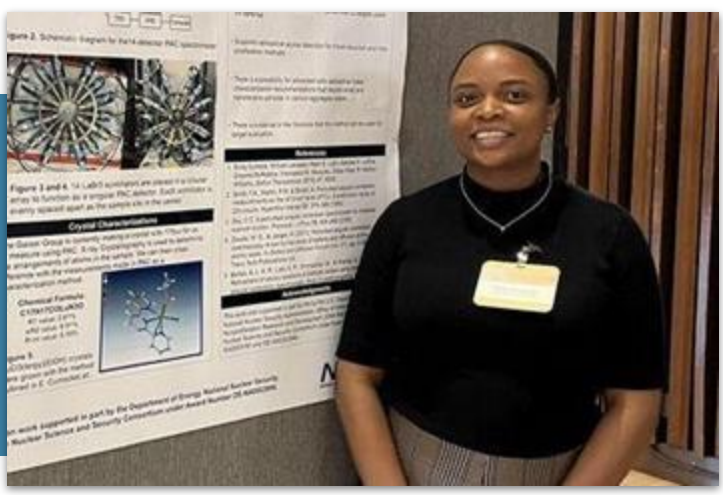
NSSC3 Community Highlights

Distinguished Accomplishments of NSSC Scholars

Isabel Hernandez (UCB) was awarded the 2024 DOE NNSA Stewardship Science Graduate Fellowship (SSGF).

Daniel Rutstrom (UTK) won first place in the NSS Student Paper Award at the 2023 IEEE NSS MIC RTSD for his work on novel CsCl-based ultrafast scintillators.

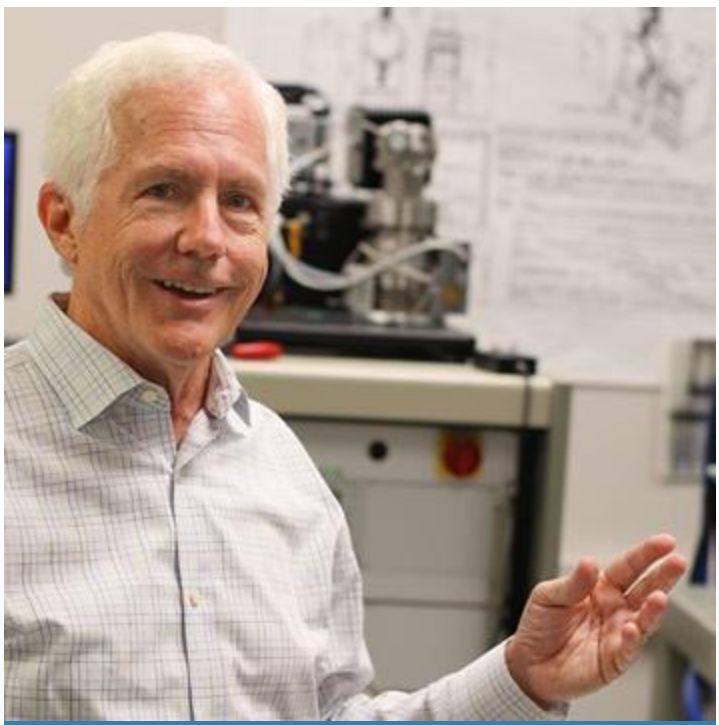
Joe Brackbill (UCB) was selected for the 2024 Hoffman NextGen Postdoctoral Fellowship in Nuclear Nonproliferation Science at LBNL.



Tracy Edwards (MSU) received the State of Michigan Spirit of Hope Governor's Award for her contributions to the social, cultural, economic, and environmental well-being of Michigan communities.

NSSC3 Community Highlights

Distinguished Career Accomplishments of NSSC Faculty Members



Prof. Chuck Melcher, NSSC UTK Faculty Member, wins the 2025 Marie Sklodowska-Curie Award

2025 Marie Sklodowska-Curie Award: The Institute of Electrical and Electronics Engineers (IEEE) will honored Prof. Melcher (UTK) with this award for discovering and developing the scintillating crystal known as LSO, which has had a lasting impact on PET technology. Sponsored by the IEEE's Nuclear and Plasma Sciences Society (NPSS), this annual award honors scientists who have made outstanding contributions to the fields of nuclear and plasma science and engineering.

2024 ANS Untermyer & Cisler Reactor Technology Medal: The ANS Untermyer & Cisler Medal is awarded to individuals who have made outstanding scientific, engineering, or management contributions to the advancement of nuclear reactor technology. Prof. Max Fratoni (UCB) is recognized for his groundbreaking development of fluoride-cooled pebble-bed reactors and pioneering work in various other advanced reactor technologies.

Prof. Max Fratoni, NSSC UCB Faculty Member, wins the ANS Untermyer & Cisler Reactor Technology Medal

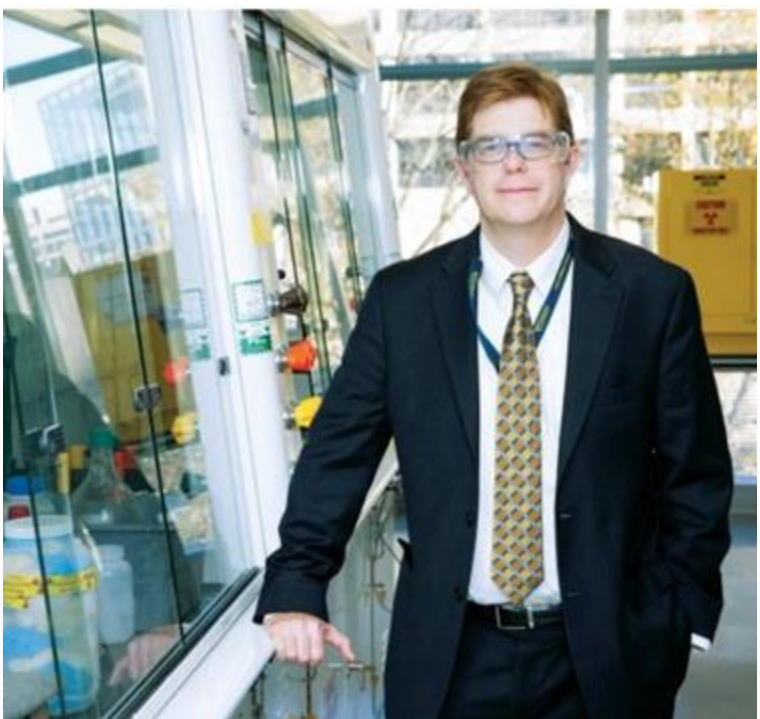
NSSC3 Community Highlights

Distinguished Career Accomplishments of NSSC Faculty Members

Prof. Sandra Bogetic, NSSC UTK Faculty Member, wins the 2024 UTK Nuclear Engineering Professor of the Year Award

2024 UTK Nuclear Engineering Professor of the Year Award:
In recognition of her exceptional contributions to the field and dedication to educating the next generation of nuclear engineers, Prof. Bogetic (UTK) was voted Nuclear Engineering Professor of the Year at the University of Tennessee Knoxville by undergraduate students at the University.

2023 Hillebrand Prize:
Awarded by the Chemical Society of Washington, this prestigious prize recognizes Prof. Cahill's (GWU) illuminating research in condensed phase actinide chemistry and crystal engineering. His work harnesses organic actinide interactions, significantly contributing to environmental remediation, separations, and nuclear forensics.



Prof. Christopher Cahill, NSSC GWU Faculty Member, wins the 2023 Hillebrand Prize

NSSC3 Community Highlights

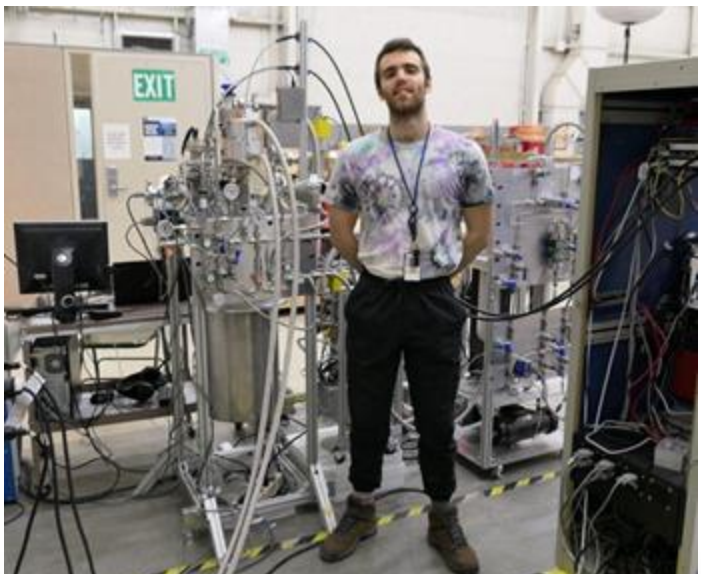
Distinguished NSSC University and Partner Laboratory Publications

"**GENESIS: Gamma Energy Neutron Energy Spectrometer for Inelastic Scattering:**" NSSC students and faculty published a collaborative research article involving NSSC universities (Air Force Institute of Technology and the University of California, Berkeley) and NSSC partner laboratories (Lawrence Berkeley National Laboratory and Lawrence Livermore National Laboratory). See Gordon et al. Nucl. Instrum. Meth. A, 1061, 169120 (2024).

Artificial intelligence for radiation detection, nuclear nonproliferation, and safeguards. Sara Pozzi, Director of the Consortium for Monitoring, Technology, and Verification (MTV); Bethany Goldblum, NSSC Executive Director; and Angela Di Fulvio, NSSC POC at the University of Illinois Urbana-Champaign, served as guest editors for a special edition in the *Annals of Nuclear Energy*. This edition focuses on artificial intelligence applications in radiation detection, nuclear nonproliferation, and safeguards.

"**Search for the Migdal effect in liquid xenon with keV-level nuclear recoils**" NSSC UCD Fellow James Kingston published his sixth peer-reviewed paper on dark matter detection in collaboration with Lawrence Livermore National Laboratory (LLNL). Kingston works with Dr. Jingke Xu at LLNL on developing and characterizing low-energy detectors for the direct detection of dark matter. See Kingston et al. Phys. Rev. D, 109, L051101 (2024).

"**New ultrafast scintillators with core valence luminescence: Cs_2MgCl_4 and Cs_3MgCl_5,**" At the IEEE Nuclear Science Symposium (NSS) and Medical Imaging Conference (MIC) in November 2023, NSSC UTK Fellow Daniel Rutstrom received first place for his paper on novel scintillators. See Rutstrom et al. J. Mater. Chem. C, 12, 6920-6931 (2024).



NSSC-UCD Fellow, James Kingston, pictured at LLNL

NSSC-UTK Fellow, Daniel Rutstrom, pictured at the 2023 IEEE NSS MIC RTSD

NSSC Demonstrated Excellence & Innovation

2011 to present

713
Personnel Supported

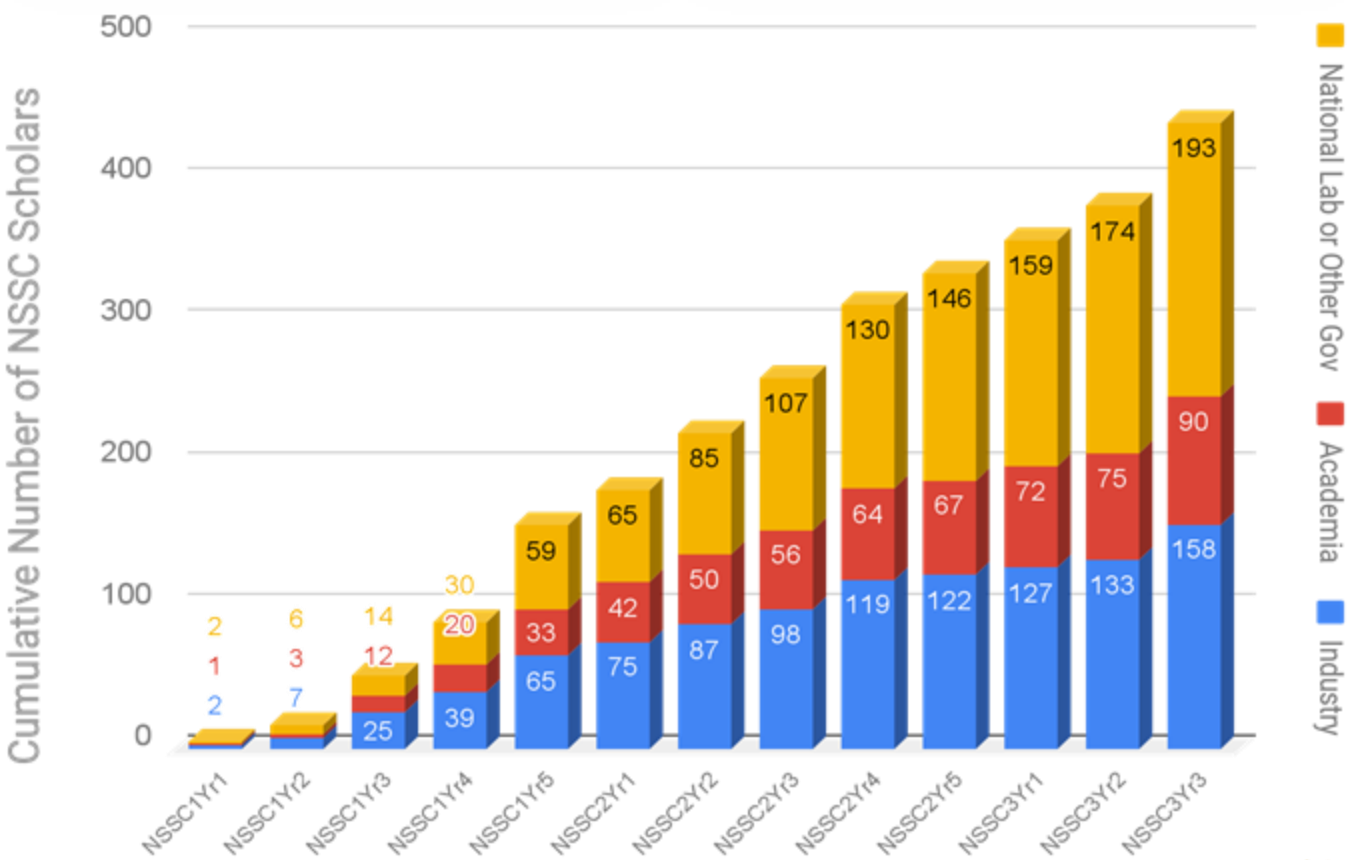
296
Awards

491
Peer-Reviewed Publications

62
Webinars & Seminars

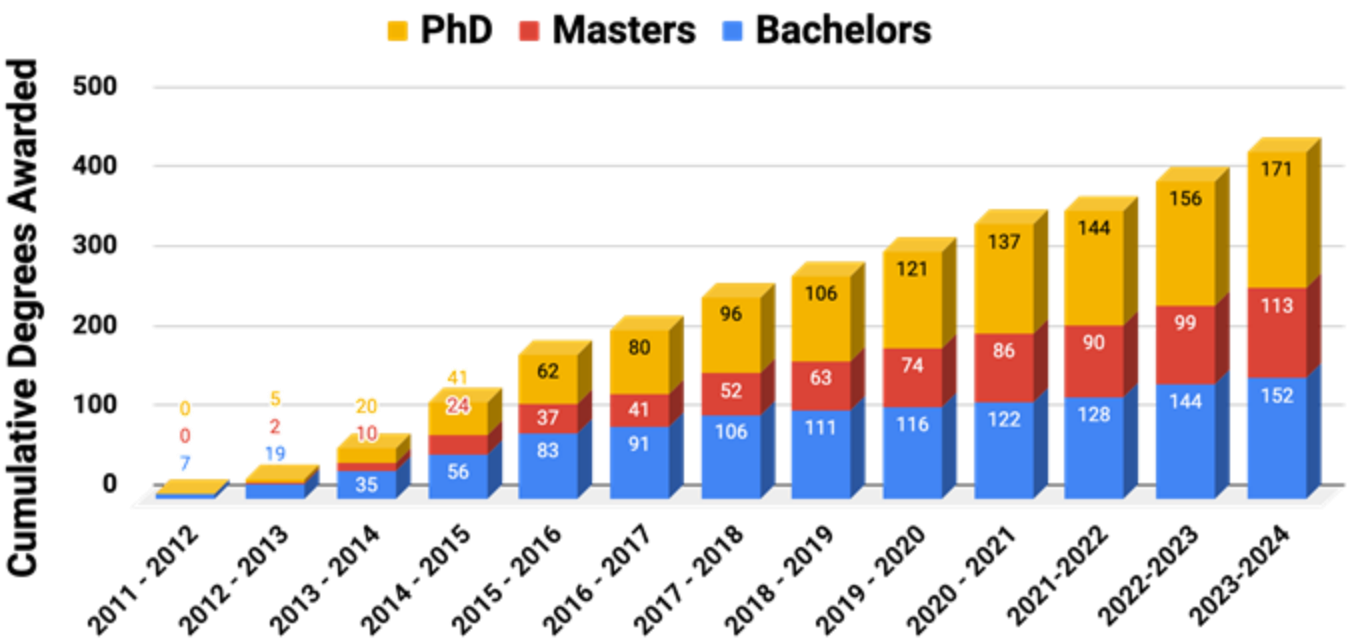
772
Posters

1143
Oral Presentations



NSSC Degrees Awarded

2011 to present



152

Bachelors Degrees

113

Masters Degrees

172

PhD Degrees

437

B.S., M.S., and Ph.D. degrees!

OAK RIDGE National Laboratory

NSSC Fellow, Kalie Knecht, accepted a position at ORNL after graduating from UCB this Spring

NSSC Careers (2011-present)

NSSC Alums Hired at the National Laboratories or Other Government Agencies

195 NSSC Fellows & Affiliates have been placed!

Kalie Knecht
PhD UCB
ORNL
2024

Catherine Apgar
PhD UCB
LANL
2024

Joe Brackbill
PhD UCB
LBNL
2024

Robert Jacob
PhD UCB
LBNL
2024

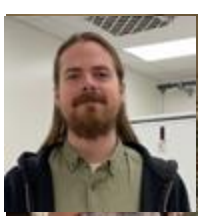
Dustin Rogers
Masters AFIT
Air Force
2024

Tyler Jordan
PhD UCB
LANL
2024

Brady Moore
Bachelors UTK
Y-12
2024

Autumn Mitchell
Bachelors UTK
Government
2024

Brady Buckley
Masters AFIT
Air Force
2024



Peter Boone
Masters UCB
LLNL
2024

Ryan Smith
PhD UCB
LBNL
2023

Ananya Venkatraman
Bachelors UCB
JHU APL
2023

Chris Brand
PhD UCB
LLNL
2023

Benjamin Walusiak
PhD GWU
LANL
2023

Christian Young
PhD UTK
Y-12
2023

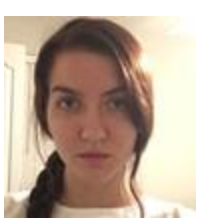
David Raji
PhD UTK
PNNL
2023

Ben Godfrey
PhD UCD
LBNL
2023

Preston Awedisean
Masters UCB
2023

Tim Genda
PhD UCB
Air Force
2023

Richard Lew
Bachelors UCB
LLNL
2023



Carla McKinley
Masters UCB
LLNL 2023

Jonathan George
Masters UNLV
ORNL
2023

Karen Hogue
PhD UTK
ORNL
2023

Dominic Piedmont
PhD UIUC
INL
2023

NSSC Pipeline Metrics (2011-2024)

NSSC Alums Hired at the National Labs or Government Positions

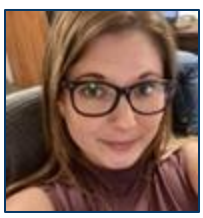
Daniel
Puentes
PhD MSU
NNSA
2023

Brian
Lenardo
PhD UCD
SLAC
2023

Aaron
Nowack
PhD UTK
SNL
2023

Scott
Essenmacher
Postdoc MSU
LLNL
2023

Austin
Mullen
PhD UCB
LANL
2023



Erin Good
PhD MSU
PNNL
2023

Tyler Nagel
PhD UCB
LANL
2023

Sarah Loftin
Masters
TAMU
DOE NNSA
2022

Sarah
Stevenson
PhD UCB
Air Force
2022

Billy Boxer
PhD UCD
PNNL
2022

Kathryn Huff
PhD UCB
DOE
2022

Peter Huck
PhD GWU
LLNL
2022

James Louis-
Jean
PhD UNLV
SRNL
2022

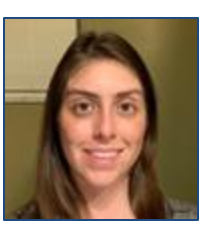
Luca Pagani
PhD UCD
PNNL
2022

Fernando
Torales-Acosta
PhD UCB
LBNL
2022

Jyothisraj
Johnson
PhD UCD
LBNL
2022

Katherine
Luebke
PhD UNLV
LANL
2022

Matthew
Weiss
Postdoc UIUC
LLNL
2022



Elizabeth
Rubino
PhD MSU
LLNL
2022

Leon Pickard
Postdoc UCD
LBNL
2022

Aaron Chester
Postdoc MSU
FRIB
2022

Nicole Byrne
PhD GWU
Argonne
2022

Ethan Boado
Bachelors
UCD
PNNL
2022

James Bevins
PhD UCB
LANL
2021

Juan
Manfredi
Postdoc UCB
AFIT
2021

Mariah
Ramirez
PhD TAMU
DTRA
2021

Katie
Childers
PhD MSU
RSL
2021

NSSC Pipeline Metrics (2011-2024)

NSSC Alums Hired at the National Labs or Government Positions

Jake Tibbetts
Masters UCB
Intelligence
2021

Caleb
Redding
PhD UTK
ORNL
2021

Eric Nelius
Masters UTK
SNL
2021

Carl Britt
PhD UTK
PNNL
2021

Andrea
Richard
PhD MSU
LLNL
2021

Jason
Matheny
Masters UCB
LANL
2021

Cordell
Delzer
PhD UTK
LANL
2021

Kelly Kmak
PhD UCB
LLNL
2021

Brian
Champine
PhD UCB
LLNL
2021

Rebecca
Lowe
PhD UNLV
NNSS
2021

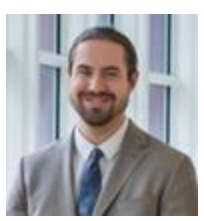
Kevin
Glennon
PhD TAMU
LLNL
2021

Hi Vo
PhD UCB
LANL
2021

John Ash
PhD MSU
TRIUMF
2021

Paulina
Wheeler
Bachelors UCB
NASA
2021

Katherine
Shield
PhD UCB
US DOS
2021



Patrick
Williams
Masters UTK
IAEA
2021

Roy Ready
PhD MSU
US Naval
Research Lab
2021

Joshua Smith
PhD UTK
LLNL
2021

Athena
Gallardo
PhD UNLV
LANL
2020

Teal Pershing
PhD UCD
LLNL
2020

Rebecca
Krentz-Wee
PhD UCB
IAEA
2020

Max Wallace
Bachelors
UCB
LLNL
2020

August
Ridenour
PhD GWU
NRL
2020

Kelsey
Amundson
Bachelors UCB
LANL
2020

Brenden
Longfellow
PhD MSU
LLNL
2020

Micah
Folsom
PhD UTK
LBNL
2020

Andrew
Reddie
Postdoc UCB
SNL
2020

NSSC Pipeline Metrics (2011-2024)

NSSC Alums Hired at the National Labs or Government Positions

Stephanie Lyons
Postdoc MSU
PNNL
2020

Terri Poxon-Pearson
PhD MSU
NNSA
2020

Travis Smith
Masters UTK
State of Nebraska
2020

Adriana Sweet
PhD UCB
LLNL
2020

Tucker McClanahan
PhD UTK
LANL
2020

J.R. Powers-Luhn
PhD UTK
PNNL
2020

Eleanor Comer
Masters UTK
Y-12
2020

Jon Balajthy
PhD UCD
SNL
2020

Jackie Dorhout
PhD UNLV
LANL
2020

Jonathan Hartman
Masters UTK
Y-12
2020

Caroline Hughes
Masters UCB
PNNL
2019

Keith McManus
PhD UCB
NNSA
2019

Daniel Hellfeld
PhD UCB
LBNL
2019

Aaron Manalaysay
Postdoc UCD
LBNL
2019

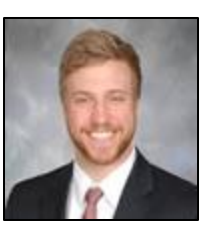
William Kerlin
PhD UNLV
LLNL
2019

Christian Bustillos
PhD UCI
LLNL
2019

Rachel Mersch
PhD UTK
ORNL
2019

Jaclynn Unangst
PhD UCI
SNL
2019

Ardelia Clarke
PhD Fisk
PNNL
2019

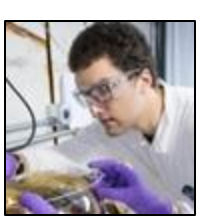


Milos Atz
PhD UCB
ANL
2019

Angela Moore
PhD UTK
PNNL
2019

Kelsey Ammundon
Masters UCB
LANL
2019

Lucas Boron-Brenner
PhD UNLV
PNNL
2019



Vincent Fisher
Postdoc UCD
FERMI
2019

Michael Moore
PhD UTK
PNNL
2019

Bradley Childs
PhD UNLV
LLNL
2019

Madhuri Kumari
PhD UCD
SNL
2019

NSSC Pipeline Metrics (2011-2024)

NSSC Alums Hired at the National Labs or Government Positions

Rebecca Lewis
PhD MSU
NNSA
2019

Jeffrey Kwarsick
PhD UCB
LBNL
2019

Daniel Votaw
Masters MSU
LANL
2019

Elizabeth Heckmaier
PhD UCI
LLNL
2018

Tomi Akindele
PhD UCB
LLNL
2018

Krystin Stiefel
PhD MSU
ORNL
2018

Jason RIchards
PhD UNLV
ORNL
2018

Mark Quint
Masters UTK
U.S. Army
2018

Daniel Harding
PhD UTK
Norfolk Naval Shipyard
2018

Maxwell Sherrod
PhD UNLV
SRNL
2018

Mike Shattan
PhD UTK
AFIT
2018

Morgan Askins
PhD UCD
LBNL
2018

Sarah Laderman
Masters UCB
IAEA
2018

Matthew Tweardy
PhD UTK
NNSA at PNNL
2018

Steven Gardiner
PhD UCD
Fermi National Accelerator Lab
2018

Winston Degraw
Bachelors UCB
LBNL
2018

Scott Parker
PhD UCB
LANL
2018

Nicole Apadula
Postdoc UCB
LBNL
2018

Marc Fitzgerald
PhD UNLV
LLNL
2017

Gian Surbella
PhD GWU
PNNL
Spring 2017

Cassara Higgins
Postdoc UNLV
LANL
2017

Leo Kirsch
PhD UCB
LLNL
Spring 2017

Joe Belarge
Postdoc MSU
MIT Lincoln Lab
2017

Josh Brown
PhD UCB
SNL
Fall 2017

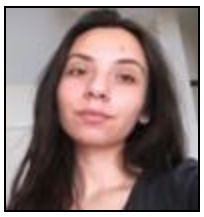
Joseph Labrum
Bachelors UCB
Intelligence
2017

Josh Despotopulos
PhD UNLV
LLNL
2017

Ryan Pavlovsky
PhD UCB
LBNL
2017

NSSC Pipeline Metrics (2011-2024)

NSSC Alums Hired at the National Labs or Government Positions



Berenice Garcia
Bachelors UCB
LANL
2017

Nick Bricker
Masters UCB
LBNL
2016

Derek McLain
PhD UNLV
ANL
2016

Janelle Droessler
PhD UNLV
LANL
2016

Christopher Prokop
PhD MSU
LANL
2016

Charles Loelius
Masters MSU
NNSA | PNNL
2016

Nick Walsh
Postdoc UCD
LLNL
2016

David Weisz
PhD UCB
LLNL
2016

Michael Jones
PhD MSU
LBNL
2016

Sergey Uvarov
Masters UCD
LLNL
2016

Caleb Roecker
PhD UCB
LANL
2016

Ross Barnowski
PhD UCB
LBNL
2016

Eva Uribe
PhD UCB
SNL
2016

Kalee Hammerton
PhD MSU
Savannah River
2016

Keenan Thomas
Masters UCB
LLNL
2016

Barbara Wang
Postdoc UCB
LLNL
2016

Uday Mehta
Bachelors UCB
LLNL
2016

Chris Morse
PhD MSU
LBNL
2016

Anthony Juarez
UCB
SNL
2016

Thomas Halverson
Masters UCB
West Point
2016

Scott Suchyta
PhD MSU
Postdoc UCB
RSL
2016

Jessica Roche
Bachelors UCB
LLNL
2016

Quinlan Smith
Masters UNLV
ORNL
Spring 2016

Nicole Larson
Bachelors MSU
INL
2016

Ross Meyer
Bachelors UCB
LBNL
2015

Andrew Haefner
PhD UCB
LBNL
2015

Sherry Faye
PhD UNLV
LLNL
2015

NSSC Pipeline Metrics (2011-2024)

NSSC Alums Hired at the National Labs or Government Positions

David Sweeney
Postdoc UCB
DTRA
2015

Tenzing Joshi
PhD UCB
LBNL
2015

Justin Munson
PhD UCB
LLNL
2015

Timothy Shokair
Postdoc UCB
LLNL
2015

Christopher Brand
Bachelors UCB
LLNL
2015

Marc Bergevin
Postdoc UCD
LLNL
2015

Steven Stroberg
PhD MSU
TRIUMF
Spring 2014

Andrew Gillick
Masters UCB
Army
2014

Anthony Lubbers
Bachelors UCB
LLNL
2014

Alex Braatz
PhD UCI
ORNL
2015

Perry Chodash
PhD UCB
LLNL
2015

Andrew Wysong
Masters UCB
LLNL
2015

Duane Smalley
Postdoc MSU
LANL
2014

Matthew Proveaux
Masters UCB
PNNL
2014

Tim Aucott
PhD UCB
SRNL
2014

Jeromy Tompkins
Postdoc MSU
NSCL
2014

Audrey Roman
PhD UNLV
LANL
2014

Victor Negut
Bachelors UCB
LBNL
2014

Cameron Bates
PhD UCB
LANL
2014

Jeremy Mock
PhD UCD
LBNL
2014

Tashi Parsons-Moss
PhD UCB
LLNL
2014

Brian Plimley
PhD UCB
LBNL
May 2014

Deepa Khatri
Bachelors UCB
NNSA/LFO
2014

Keri Campbell
PhD UNLV
LANL
2014

Jenna Smith
PhD MSU
TRIUMF
Spring 2014

Anagha Iyengar
Bachelors UCB
NNSA
2014

Maryline Ferrier
PhD UNLV
LANL
2014

NSSC Pipeline Metrics (2011-2024)

NSSC Alums Hired at the National Labs or Government Positions

Paul Davis
Postdoc UCB
NNSA
Spring 2013

Quinn Looker
PhD UCB
SNL
2013

Ligang Bai
Postdoc UNLV
ANL
2013

Brian Daub
Postdoc UCB
LLNL
2013

Adam Rice
Masters UCB
Intelligence
2013

Alexander Dixon
Bachelors UCB
US Navy
2012

Jonathan Plaue
PhD UNLV
LANL
2012

Noah Fischer
Bachelors UCB
LANL
2012

Joshua Meyers
PhD UCB
LLNL
2012

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