



"In its inaugural summer, NH-LIFT has provided impactful research experiences for PSU undergraduates that would have otherwise not been possible. The support NH-LIFT provides makes it easy to weave students into ongoing research or jump start new research projects, a critical need at institutions like PSU." - *Dr. Simon Pendleton, Plymouth State University*

## 2025 NH-LIFT Summer Summit



Please use the link below to see the full two day 2025 NH-LIFT Summit agenda. The SURE student agenda can be found there as well.

## 2025 NH-LIFT Summit Agenda

Please encourage your NH-INBRE colleagues to stay for the NH-LIFT sponsored research networking luncheon as well as the NH-LIFT opening plenary. Register for the Luncheon below. At 2:30 join NH-LIFT for a keynote address featuring Mike Skelton with the NH Business and Industry Association. Hear a presentation on BIA's *Blueprint NH 2030* including a recognition of the importance of academia in the state's economy. For additional information on the Summit, please contact **Amanda Peterson**

## Meet a LIFTER!

## REGISTER NOW! NH-LIFT / NH-INBRE August 19 Networking Luncheon

**NH-LIFT invites you** to join your fellow researchers for a **buffet Networking Luncheon on August 19, 12:30 - 2:00 PM, immediately following the close of the NH-INBRE Annual Meeting.** Discover available resources and facilities that can support your research while also connecting with potential research collaborators from



Meet Simon Pendleton, Assistant Professor of Practice, Environmental Science and Policy Program at Plymouth State University. Dr. Simon has joined the LIFT community as a faculty mentor to a SURE student intern. Already familiar with NH EPSCoR through a previous NSF EPSCoR award, Simon indicated he learned about NH-LIFT through the PSU LIFT PI, Eric Hoffman.

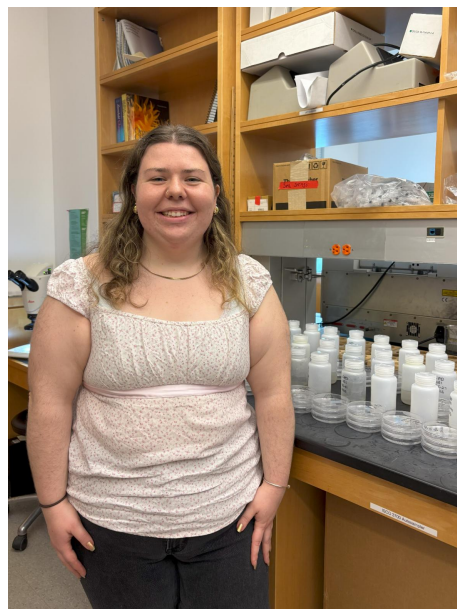
Simon was drawn to NH-LIFT's mission of supporting student centered research experiences and shared his own career was kickstarted by an undergraduate research experience. Simon carries this passion forward by seeking ways to give back to his current students by helping them gain experience and skills, while exploring newfound passions. Simon went on to share how much he enjoys working with students daily, helping them to understand why mountains are where they are, how rivers modify our landscapes, and so much more. These teachings can ignite a student's curiosity regarding how humans interact with earth systems and by doing so learn the skills and tools to become creative earth scientists.

Simon noted, "I am passionate and curious about the world around me and enjoy that my work allows me to explore, investigate and work to understand the earth systems all around us, how they have operated in the past, and how they will morph in the future, especially as humans continue to modify our planet."

Outside of academia Simon enjoys being in nature in as many ways as possible: cycling, running, hiking, swimming, paddling, ice skating, skiing, and backpacking. When asked if there was something about himself

across New Hampshire. Learn more about NH-LIFT **Collaboration and Catalyst Seed Grants** intended to foster research collaborations. Add your name to a database of current science related research across the state.

## REGISTRATION LINK for Networking Luncheon



NH-LIFT SURE intern Jenna Moore. Jenna is researching past fire history here in NH through sediment cores some dating back 11,000 years! Simon Pendleton is Jenna's faculty mentor.



Triple layer chocolate cake with raspberry compote, chocolate ganache, and a chocolate glaze baked by Simon!

that his colleagues may not know, Simon shared he enjoys making multi-layer cakes!

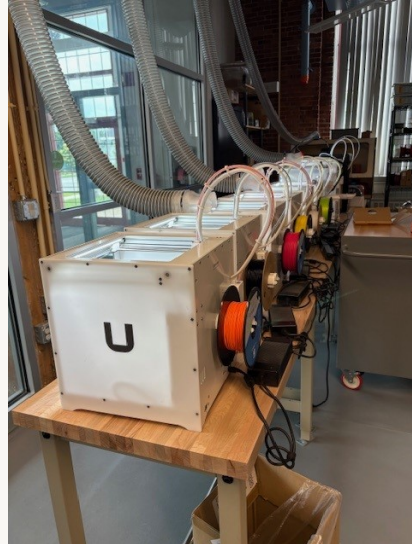
<https://www.simonpendleton.com>

## NH-LIFT On the Road Again!

On July 1, the NH-LIFT Leadership Team took to the road to enjoy a campus tour of Plymouth State University. Hosted by Professor Eric Hoffman, the team met the SURE interns and their respective faculty mentors, toured the historic Draper Maynard building, now home to the newly installed Robotics Open Laboratory, and met several NH-INBRE student interns and their mentors. All agree that these visits allow for the cross-pollination of ideas which will lead, in turn, to future research collaborations across the state.



Bret Kulakovich, PSU's Robotics Automation Program Coordinator. New to the university, PSU's Robotics Lab had its grand opening in January of this year.



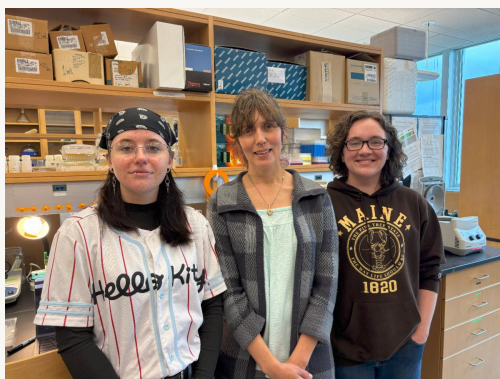
A bank of 3D printers housed in PSU's Robotics Lab.

PSU's Robotics Lab facility features state-of-the-art equipment and tools, including 3-D printing, laser cutting, milling, and Computer Numerical Control (CnC) workstations.





The team having fun in front of the weather green screen in the PSU TV Studio



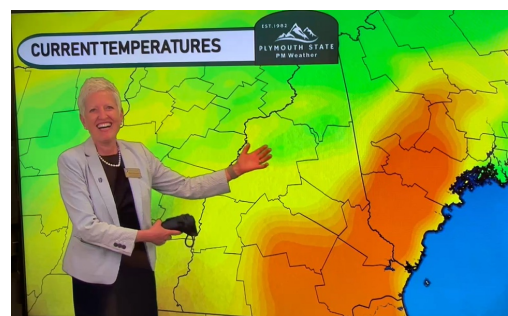
NH-LIFT SURE interns Ronan Sangster and Cassidy Margerison with their faculty mentor Diana Jolles. Students are researching the evolutionary significance of color variations in the pink Lady Slipper orchid native to North America



REU summer interns studying weather patterns in the PSU Weather Center



PSU NH-LIFT PI and host, Meteorology Professor Eric Hoffman giving the team a weather report in the PSU TV station.



Marian McCord, NH-LIFT PI and UNH Senior Vice Provost for Research, Economic Engagement and Outreach, giving her weather reporting skills a try!

**Bringing light to discovery**

**Mass Spectrometry Proteomics Seminar**  
Tuesday, August 5, 2025

Join us for an opportunity to engage with industry experts, learn about cutting-edge techniques, and explore recent proteomics trends.  
Tuesday, August 5 | 8:30 AM – 1:05 PM  
University of New Hampshire  
Kingbury Hall, Room 5145  
Free parking & lunch provided  
Lab tours available after the program

Hosted by Thermo Fisher Scientific, UNH University Instrumentation Center and the University of New Hampshire Center of Integrated Biomedical and Bioengineering Research

To register, scan the code above or visit <https://forms.office.com/mhEg5dF9Nh>

Agenda	
8:30 am – 9:00 am	Registration, networking & breakfast
9:00 am – 9:20 am	Welcome and introductions
9:20 am – 9:50 am	Determination of the structure and regulation of the photoreceptor phosphodiesterase (PDE6) using chemical cross-linking and mass spectrometry; implications for treating retinal degenerative diseases Dr. Rick Cole, PhD, Director of CIBBR, University of New Hampshire
9:50 am – 10:20 am	Why Data Quality Matters: How High Resolution, Alternate Fragmentation and Intelligent Design Improves Glycopeptide, Protein and Small Molecule MS Analysis Dr. Amanda Lee, PhD, Product Manager, Thermo Fisher Scientific
10:20 am – 10:35 am	Break
10:35 am – 11:05 am	Core Facility Mass Spectrometers for Studying Electrospray Ionization Fundamentals and the Quantitative Analysis of Cyclic Peptides Ian Ferraro, Dr. Anyin Li Lab, University of Hampshire
11:05 am – 11:35 am	Adapting EasyPep MS Sample Preparation and TMT Labeling Reagents for Higher Throughput Platforms Dr. Maxwell Dou, PhD, Senior Product Specialist, Thermo Fisher Scientific
11:35 am – 12:05 pm	Lunch
12:05 pm – 12:35 pm	Elucidating PTM-Mediated Regulation Using Mass Spectrometry Dr. Felecia Chu, PhD, Professor, University of New Hampshire
12:35 pm – 1:05 pm	TBD

Join us for an opportunity to engage with industry experts, learn about cutting-edge techniques, and explore recent proteomics trends. Hosted by Thermo Fisher Scientific, UNH University Instrumentation Center and the University of New Hampshire Center of Integrated Biomedical and Bioengineering Research (CIBBR)

**More Info**

## Team Resources

Website: **NH LIFT**  
Email: [nh.epscor@unh.edu](mailto:nh.epscor@unh.edu)  
LinkedIn: **@nh-epscor**  
NSF Award: **Citation Format**



## NH-LIFT Partner Institutions



NH-LIFT is supported by NSF EPSCoR E-CORE award #2412054

***NH Long-Term Investment to Fuel Transformative Research***  
***Catalyzing New Research Opportunities at NH's Higher Education Institutions***



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