

IMPACT REPORT

NUCLEAR INNOVATION BOOTCAMP

2016-2024

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INTRODUCTION

Since 2016, **The Nuclear Innovation Bootcamp (NIB)** has enhanced the careers of students and young professionals working or looking to work in the advanced nuclear energy sector. As the demand for experienced leadership, new ideas, and professional development in this field continues to grow, NIB will be an increasingly important recruitment pipeline for diverse, creative, and energetic young talent.

Looking forward, NIB is preparing to embark on the next phase of its development by focusing on three core initiatives:

- **Strengthening its commitments to innovation education and increasing diversity in the nuclear energy sector**
- **Expanding its engagement with a broader range of communities and industries**
- **Recruiting talent from underrepresented disciplines and professions**

Before embarking on these changes, NIB started by learning from those at the center of our program: the 151 participants of our first six Bootcamps who now make up our alumni network. The information in this report is largely based on survey results and interviews from this group. We hope that you will find the information and stories below as motivating as we do.

Respectfully,

The NIB Organizers



Judi Greenwald
Nuclear Innovation Alliance



Adrien Couet
University of Wisconsin-Madison



Devin Watts
Nuclear Innovation Alliance



Mya Zepp
Nuclear Innovation Alliance



Holly Powel
GAIN



Todd Allen
University of Michigan



Dinara Ermakova
Kairos



Christine King
GAIN



Rachel Slaybaugh
DCVC



River Bennett
Radiant



Andrea Morales
NowThen

OUR MISSION

In 2016, **Dr. Rachel Slaybaugh** (UCBerkeley, ARPA-E, Good Energy Collective) founded the Bootcamp to inspire and train a new generation of nuclear professionals. Diversity, innovation, and entrepreneurship have continued to be the program's core values in terms of NIB's guiding philosophy and how it structures its curriculum. NIB's multidisciplinary curriculum teaches essential skills that foster innovation and entrepreneurship, expanding the pool of talent and producing ideas for the advanced nuclear space to draw upon. By attracting qualified young people from diverse backgrounds and disciplines, the

Bootcamp has become a pipeline for connecting new talent with career opportunities while enhancing the skills of those who are already working in the sector.

With the exception of during the COVID-19 pandemic, the structure of the Nuclear Innovation Bootcamp is based each year on a 2-week intensive seminar-style workshop combined with group projects. Participants take courses in a wide range of topics in the mornings and work together on team design projects in the afternoons that are pitched to a panel of expert judges on the last day.



Dr. Rachel Slaybaugh

& CORE VALUES

In order to expose participants to a wide range of experiences, NIB brings together leaders from throughout the nuclear energy sphere, related communities in climate and energy, and other industries in order to expose young talent to the cross-cutting needs of clean energy development in the 21st century. Past participants have leveraged their experience to be impactful within various sectors including industry, academia, and government. Some have even gone on to secure their own funding and founded companies based on the ventures they started at the Bootcamp.

From the beginning, the Bootcamp has also been committed to removing barriers to cultivating a wide range of new and diverse ideas. To do this, NIB keeps costs very low for participants by funding lodging, meals, necessary supplies, transportation, and networking events throughout our 2-week program. Various levels of support are also offered to our presenters.



INCREASING DIVERSITY

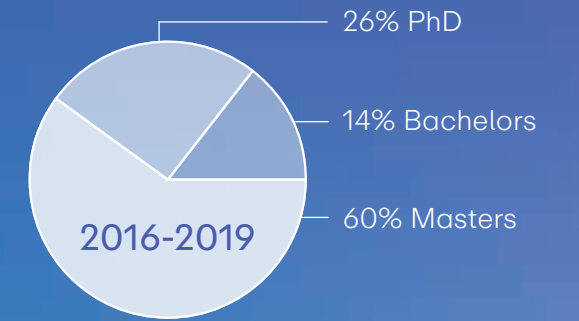
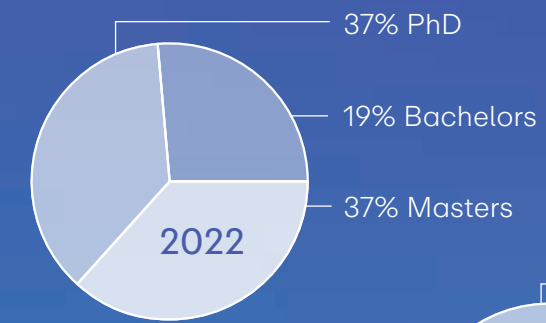
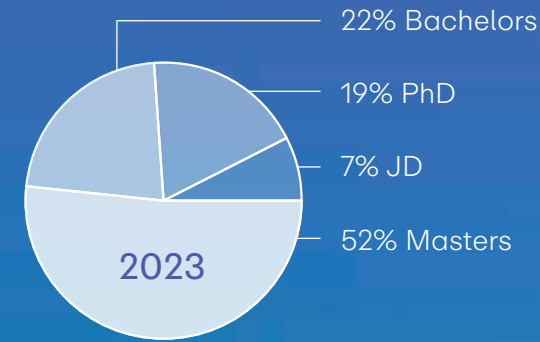
A central belief of NIB is that promoting greater diversity in the nuclear energy sector is necessary to build a dynamic, competitive, and productive future work-

force. Innovation and entrepreneurialism depend on the inclusion and consideration of fresh perspectives and new ideas. The Bootcamp not only broadens the

minds of participants but actively broadens the traditional reach of the nuclear energy sector's candidate pool. We aim to continue promoting diversity within NIB by striving to include a wide range of disciplines and communities in any and every way possible.

DEMOGRAPHICS

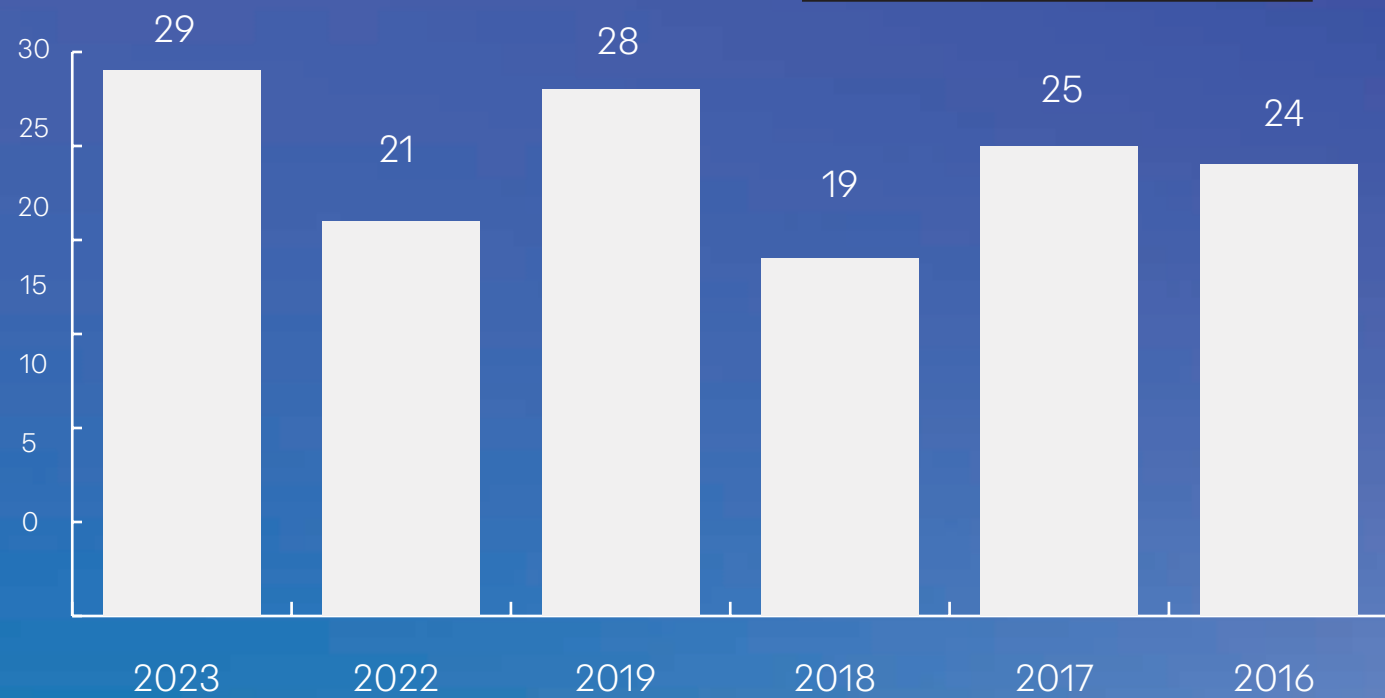
Average participant age **28**



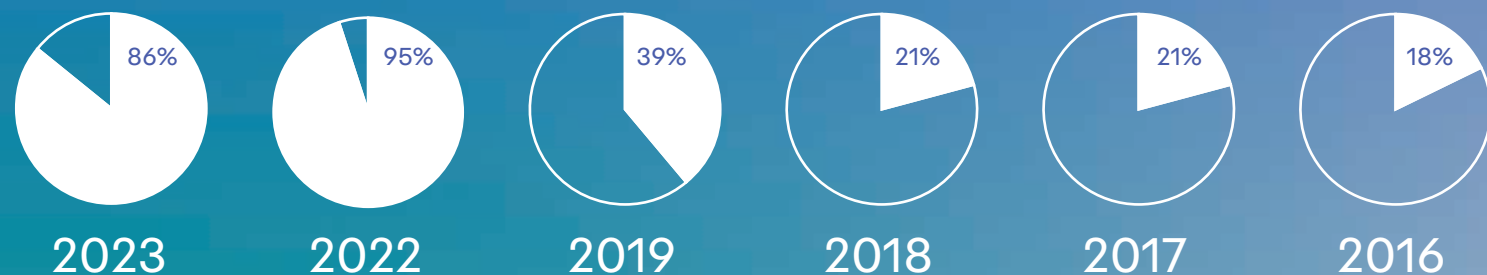
INCREASING DIVERSITY

BOOTCAMP PARTICIPANTS

NIB 2023 had the most participants yet!



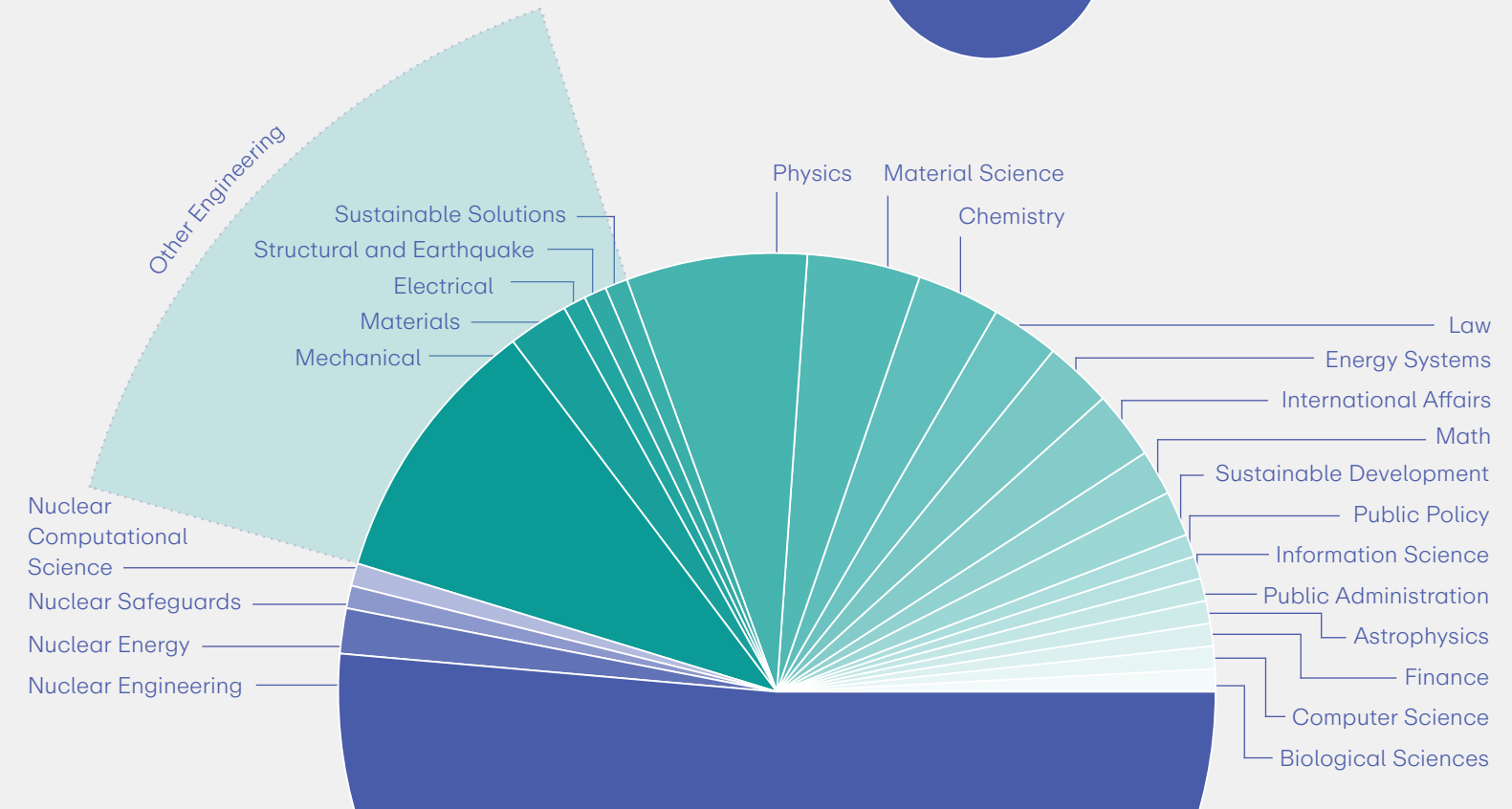
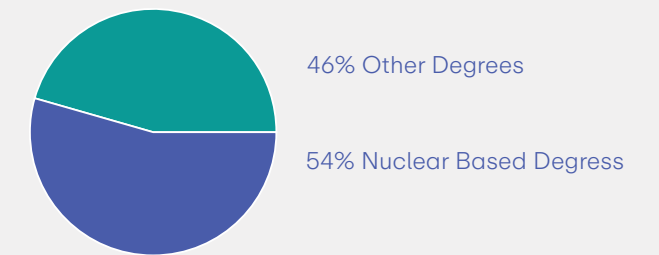
SURVEY RESPONDENTS



DEGREE DISCIPLINES

The Nuclear Innovation Bootcamp accepts a wide range of individuals with different backgrounds. Applicants must demonstrate a passion for nuclear energy and as a result the majority of participants have studied nuclear energy in some way, whether through nuclear engineering, nuclear safeguards or other related fields. Of the remaining participants, a large number have studied related fields such as mechanical engineering, physics,

chemistry or materials science. Those participants who did not study any STEM fields had focused on policy-related fields like law, public policy and international relations.



WHERE ARE THEY NOW?

NIB Alumni's current company and job titles!

- International Atomic Energy Agency ²
- Kairos ⁵
- Breakthrough Institute ²
- Idaho National Laboratory ³
- Westinghouse Electric ²
- MIT ³
- Assystem ²
- Caelus
- Framatome
- Radical Energy and Material
- EPRI
- Siwabessy Initiative
- Alpha Nur
- RINA
- Clearpath
- Center on Global Energy Policy
- GenH
- Ulsan National Institute of Science and Technology
- Aquafil
- Voltus
- AFRY
- Urenco Capenhurst
- Lawrence Livermore National Laboratory
- Longnecker & Associates inc
- University of Wisconsin-Madison

- National University of Mongolia
- Commonwealth Fusion Systems
- Nuclear Decommissioning Authority
- NAAREA
- WBUR
- Naval Sea Systems Command
- Argonne National Laboratory
- PwC
- Bright Strategies
- EY - Parthenon
- Frame Cancer Therapeutics
- Ultra Safe Nuclear
- Ofgem
- ASML
- Kyoto Fusioneering
- United States Air Force
- Blixt Group
- United States Navy
- UK Atomic Energy Authority
- KPMG US
- Vantaan Energia Oy
- ATG Europe
- University of Bristol
- Hummingbird Scientific
- PwC Middle East
- Ontario Power Generation
- Oak Ridge National Laboratory

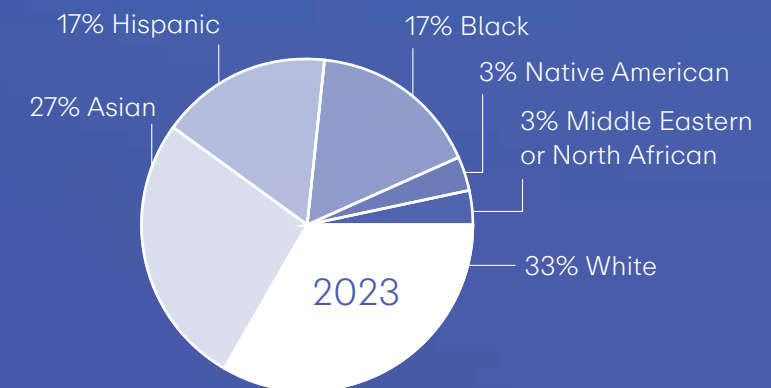
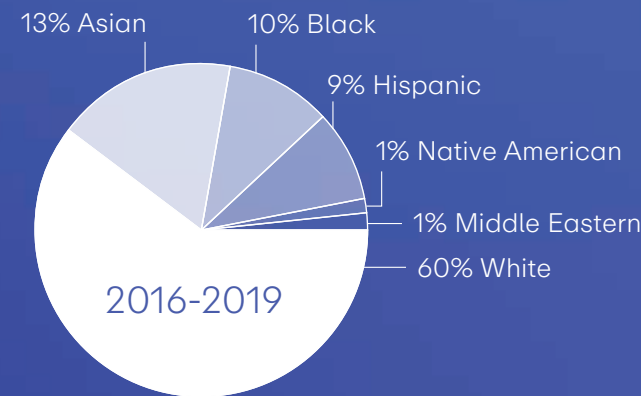
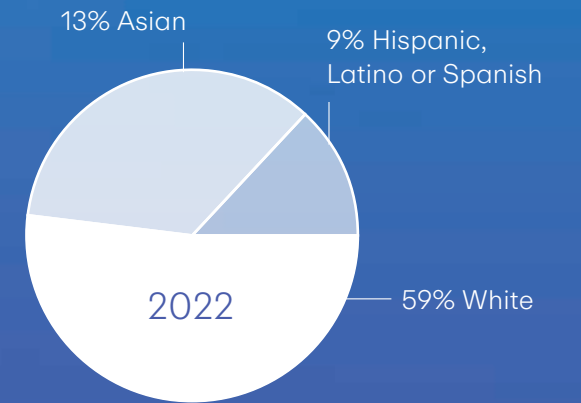
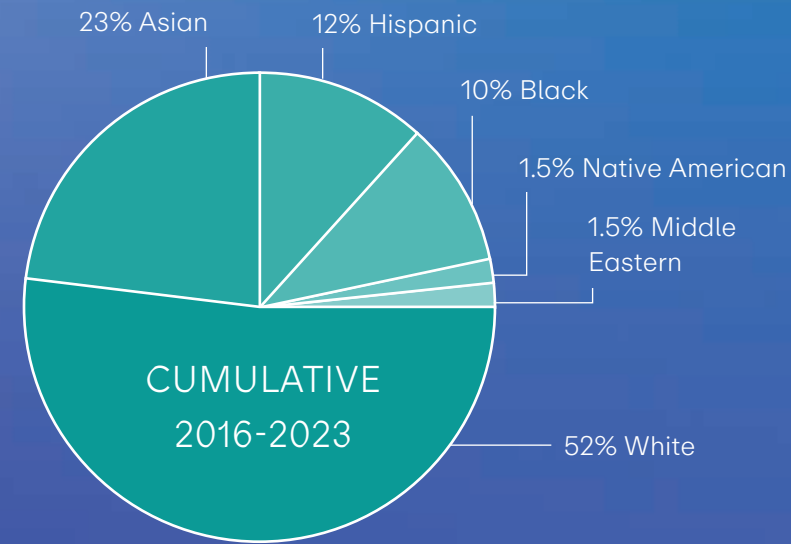
- TerraPower
- TAQA Group
- Saramin
- Lawrence Livermore National Laboratory
- Los Alamos National Laboratory
- Helixos
- Subsea7
- SPARK Alliance
- NextEra Energy Resources
- Sandia National Laboratory
- Goodnews College
- Breakthrough Energy Ventures
- Nationale Genossenschaft für die Lagerung radioaktiver Abfälle
- miHoYo
- North Carolina State University
- Arup
- Homecooks
- Vector Atomics
- Jacobs
- NASA
- Radiant
- OECD Nuclear Energy Agency

- Unemployed ¹²
- Engineer ²⁵
- Manager ¹²
- Student ¹⁶
- Researcher ¹¹
- Analyst ⁴
- CEO ⁴
- Consultant ²
- Policy Advisor
- Policy Analyst
- Policy research scientist

- Advanced reactor research regulator
- Neutronics methods technical lead
- Audit associate
- Policy and Communications Consultant
- Bioinformatics Scientist
- Chief Innovator
- Founder
- Project director
- Cyber security researcher

- Physics teacher
- Physicist
- Astrophysicist
- Assistance support officer
- Applications Scientist
- Performance Improvement Officer
- Sustainability consultant
- Nuclear Chemist
- Associate Coordination Officer
- Investment Manager
- Computational Scientist

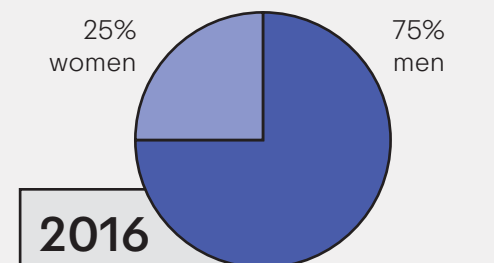
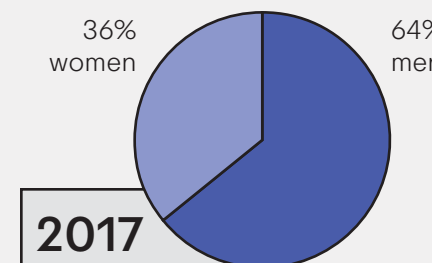
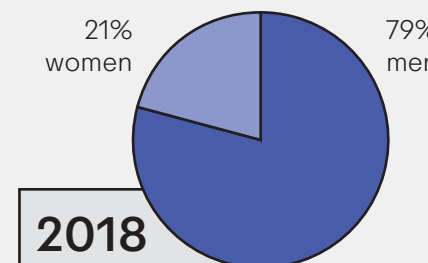
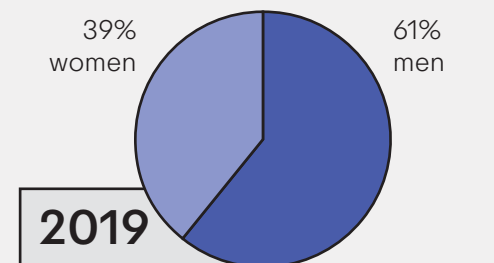
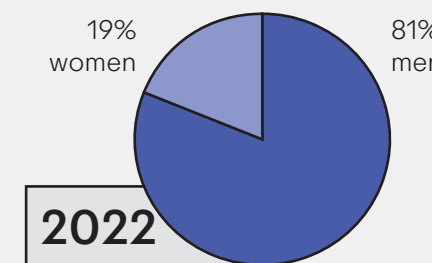
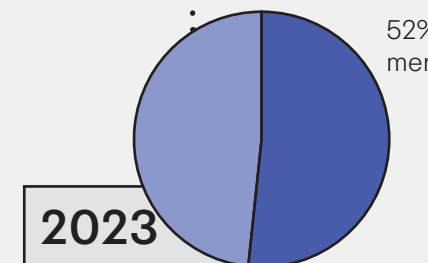
RACE



2023 had the most women of any year!

From 2022-2023 there was a 29% increase in women participants

GENDER



INCREASING DIVERSITY

COUNTRIES



2023	2022	2019	2018	2017	2016
Argentina	Indonesia	Argentina	Austria	Canada	Canada
Austria	Italy	Austria	China	China	China
Belgium	Lebanon	Finland	India	Nigeria	France
China	South Korea	France	United Arab Emirates	Puerto Rico	India
Germany	Spain	Indonesia	United Kingdom	Switzerland	United Kingdom
Ghana	United Kingdom	Japan	United States	United Arab Emirates	United States
Italy	United States	Sweden		United Kingdom	
Jamaica		Switzerland		United States	
Mexico		United Kingdom			
Mongolia		United States			
Nigeria					
United Kingdom					
United States					
Saudi Arabia					
South Africa					
Switzerland					

Over the past 8 years, NIB has hosted participants from 30 countries around the globe!

NIB 2023 had participants from 16 different countries!

OUR CROSS-CUTTING CURRICULUM

Our presenters come from a range of disciplines and the curriculum they deliver covers topics including:

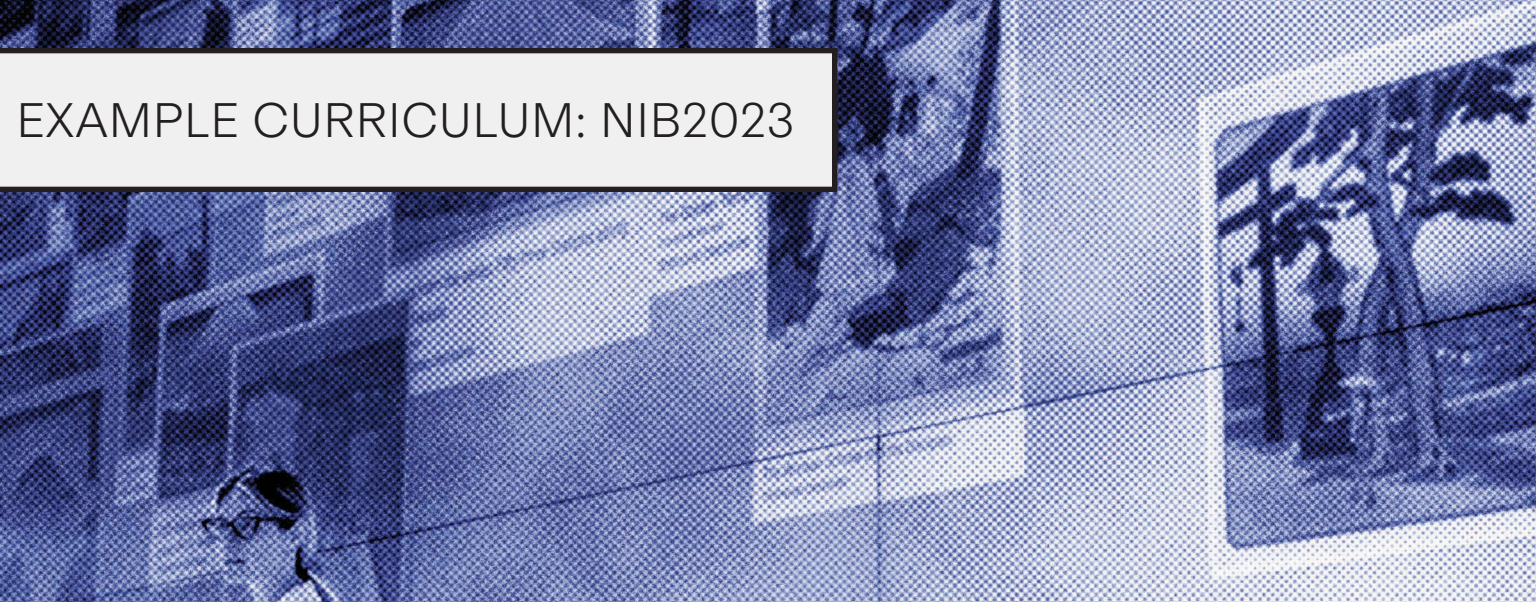
- Venture fundamentals
- Methods for idea generation and critique
- Cross-cutting needs in nuclear energy systems
- Product development and marketing
- Advanced reactor designs
- Community and stakeholder engagement
- Venture and institutional financing
- Climate change and environmental justice
- Challenges and opportunities for nuclear in the 21st century energy landscape

The Bootcamp's 2-week program is divided into two main activities:

- 1 A selection of interdisciplinary courses delivered each day by presenters from around the world who hold distinguished roles in various sectors including industry, academia, and government
- 2 The team design project in which participants form groups and build their own ventures, which on the last day of the Bootcamp they pitch to a panel of expert judges.



EXAMPLE CURRICULUM: NIB2023



	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
		Intros		Finance & Bizz	Field Trip	Field Trip
		Breakfast	Breakfast	Breakfast		Travel to NPS by Bus
9:00		Introduction + Logistics		Reactor Decommissioning Technology Development	Travel to Fukushima by Bus	
9:30		Break	Business Model & Financial Analysis			
10:00		Nuclear Innovation Bootcamp Context		Break		Tokyo Electric Power Company Fukushima Daiich Nuclear Power Station
10:30			Break			
11:00		Nonproliferation Associated with Fuel Reprocessing	Advanced Nuclear Energy Policy	Team Project Work	Arrive at Fukushima	
11:30						
12:00		LUNCH	LUNCH	LUNCH	LUNCH at Fukushima	LUNCH
12:30						
1:00	Participant Check in	The Need for Innovative Clean Energy Systems for the Future	Idea generation pt. 2 Refine & Evaluate		Japan Atomic Energy Agency Naraha Center for Remote Control Technology Development	Leave to Tokyo by Bus
1:30		Panel Discussion		Team Project Work		
2:00		Break	Break			
2:30		Idea Generation pt.1	Idea generation pt. 3 Validate + groups selection	Travel to After Hour Social	Travel to Hotel	
3:00		Break			Arrive at Hotel	Dinner
3:30		Opening Keynote Speaker		After Hour Social		
4:00	Meet & Greet Social	Travel to Opening Reception Venue	Dinner		Dinner	1st Project Presentation & 1 min pitch
4:30						
5:00		Opening Dinner & Drinks with Guest Speaker and Presenters from the Day				
5:30						
6:00						
6:30						
7:00						
7:30						
8:00						
8:30						

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Theme						
8:00	Breakfast	Breakfast	Breakfast	Breakfast	Breakfast	
8:30						
9:00	Reflection, Discussion & Questions	Robotics for Sensing and Decommissioning	Innovative Nuclear Energy Systems Resilient to Natural Disasters			
9:30				Speaking with Credibility / Final Pitch Practice	DRY RUN: Final Pitch Practice	Participant Check-out
10:00	Break	Break	Break			
10:30	Radioactive Waste Management	Speaking with Credibility	Community Engagement & Communications			
11:00						
11:30						
12:00	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH	
12:30						
1:00					Welcome	
1:30	Panel Discussion	Speaking with Credibility	Team Project	Rachel S. AMA (ask me anything)	Pitches to Judges	
2:00	Break					
2:30					Keynote Speaker	
3:00	Speaking with Credibility (Intros to Tom)	Team Project		Team Project	Travel to Awards Reception	
3:30			After Hour Social			
4:00	Team Project					
4:30						
5:00	Dinner	Dinner		Dinner	Closing Award Reception	
5:30						
6:00						
6:30						
7:00						
7:30						
8:00						
8:30						

MENTORING

The team design project constitutes a significant portion of the Nuclear Innovation Bootcamp. Throughout the two weeks, participants work in small groups on a venture that will have technical and non-technical components touching upon a wide range of topics. Team members do not have expertise in most of these areas, so our mentors are assigned to groups and serve as experts from across disciplines to be available and answer questions as needed. There are two forms this mentoring can take: continuous mentoring and spot mentoring.

Continuous Mentors are available as a resource throughout the program for a specific

team. One or two mentors will work with each team to provide consistency, perspective, and guidance over the full program. Past participants consider their Continuous Mentors as one of the most useful resources throughout the program and some groups have continued working with them after the Bootcamp ended.

Spot Mentors are available to one or several teams to provide feedback on a specific issue. Participation is largely virtual and mentors are free to set the parameters of their availability and interaction.

DESIGN PROJECTS: LEARNING IN ACTION

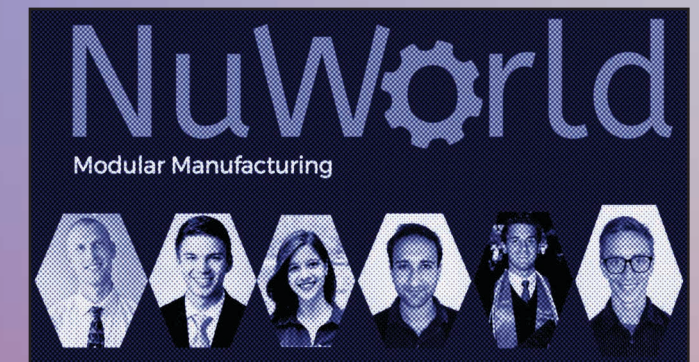
The Bootcamp's team design projects make up one-half of the 2-week experience. They teach participants to work together through the process of identifying and designing creative solutions to issues facing the nuclear energy sector as well as broader energy and climate challenges. After building ventures that are then pitched to expert judges, many teams have gone on to win national and international innovation competitions as well as gain private funding to continue developing their ideas.



2016 - Auzel: Energy from Waste

Andrea Saltos, Aristidis (Aries) Loumis, Arun Khuttan, Ian Hamilton, Milos Atz, Nikhil Bharadwaj

Auzel sought to collect energy from nuclear waste heat through the use of photon up-scale converters and IR-photovoltaic cells. Our case study is based on the High-Level Vitrified Waste facility in Sellafield, UK, but our ideal is to apply this to all high-level waste and applications beyond.



2017 - NuWorld

Dylan Addison, Dane de Wet, Mike Ford, Alyssa Hayes, Hassan Qarra, Logan Turk

NuWorld links modern manufacturing methods to advanced reactor technology. We solve a critical problem facing the future of clean energy. Our innovative solution accelerates the deployment of advanced nuclear reactors by an order of magnitude, cutting the costs by half. Our assembly-line solution for the next generation of nuclear power enables a new economic platform for development in the United States and around the world.



2018 - Testing and Irradiation of Materials (TIM)

Francisco Fidalgo, Charley Goodman, Jake Quincey, Brian Shen, Nicole Virgili

TIM is addressing the current backlog and inflexibility in testing of fuels and materials at test reactors around the world. Tim's idea is to take advantage of the untapped subcritical space in which companies like SHINE Medical Technologies operate by using a high flux neutron generator to irradiate a subcritical assembly. This technology will expedite the process of new fuel certification and allow nuclear startup companies focused on Gen IV reactors to mature their designs and reach licensing and commercialization much faster.



2019 - Glacial Melt Mitigation Services (GMMS)

Adnan Wisudhaputra, Ajit Bastola, Bianca Carpinelli, Dinara Ermakova, Jake Littlepage, Sara Ferry, Sree Harsha Bandaru, Viljami Yli-Hemminki

Glacial Melt Mitigation Services (GMMS) is a consulting company that helps national governments, NGOs, and nuclear vendors harness nuclear power to avoid the catastrophic consequences of climate-change induced glacial melt. There are many geoengineering proposals to prevent the melting of ice sheets and glaciers, but these technologies require massive amounts of energy. Advanced nuclear power is the cleanest and most cost-effective choice to meet these energy needs. GMMS works to identify the areas across the globe that are most at-risk from glacial melt, form coalitions across the private and public sectors to act, and advise on relevant matters of international climate and marine policy. We then leverage a deep network of nuclear and infrastructural vendors to design site-specific nuclear-powered glacial melt mitigation solutions.



2022 - Resource Adaptations Solutions (RAS)

Diana Grandas, Paris Porter-Bradley, Cheng-Kai Tai, Natalie Houghtalen

Resource Adaptations Solutions (RAS) provides an innovative technology solution to optimize cooling water use so that nuclear power plants can continue to provide power to communities when they need it most. Our values are core to our operation – we bring Service, Quality, Safety, and Integrity to every customer we serve.

The impacts of climate change are already here, and the time to adapt to avoid the worst of human suffering is now. Rising temperatures and extreme heat waves have become more frequent and severe in recent years. Higher ambient air temperatures increase evaporation rates and decrease soil moisture, making future droughts stronger and longer lasting. Extreme heat threatens power generators, which were not designed with a rapidly changing climate landscape in mind, exposing communities to critical vulnerabilities. Power output is limited by rising temperatures and lack of availability of cooling water. An increase of 2°F in ambient temperatures results in a two percent decrease of total power output, preventing billions of homes from receiving power during the hottest days on record when air conditioning is most needed to prevent death due to heat exposure. Resource Adaptation Solutions is committed to producing an affordable, effective solution that is replicable at any thermal generation station. We Save Water to Save Lives



2023 - Nucleus

Caroline Seyffert, Lewis Handy-Cardenas, Madeleine Lewis, Susannah Lea, Alessandra Totaro Villar

Nucleus is an innovative new contracting company integrating powerful nuclear microreactor technology to fuel the workforce in growing areas of demand—from manufacturing and construction to the clean energy transition. Our team of engineering and policy experts will mobilize and operate rapidly dispatchable carbon-free workforce housing and accessory power sources for industrial projects of all sizes and duration. Our business aims to provide logistics services in the form of temporary housing, connected to a microreactor for electricity and heat. Excess heat can also be harnessed for energy intensive operations, such as hydrogen production and desalination.



THE PEOPLE WHO MAKE IT POSSIBLE OUR SPONSORS

2023



2022



2019



2018



2017



2016



THE PEOPLE WHO MAKE IT POSSIBLE OUR PARTICIPANTS



2022: MADISON, WISCONSIN, USA

- | | | | |
|------------------|----------------------|----------------------|---------------------|
| Alessio Iuvara | Jared Hoffman | Max Karous | Shirley Yong |
| Amy Kynman | Javier Pelegrina | Natalie Houghtalen | Siddharth Pannir |
| Cheng-Kai Tai | Joseph Fustero | Paris Porter Bradley | Yanuar Ady Setiawan |
| Coleman Smith | Kaivalya Lal | Rakhmat Eko Saputro | Zachary Diermyer |
| Diana Grandas | Kevin O'Sullivan | Rama Thygaraju | |
| Harun Ardiansyah | Mason Rodriguez Rand | Ponangi | |



2023: TOKYO, JAPAN

- | | | | |
|--------------------------|-------------------------|-----------------------|-----------------------|
| Alessandra Totaro Villar | Hannah Harris | Lewis Handy-Cardenas | Susannah Lea |
| Alice Ding | Iva Recking | Madeleine Lewis | Tsendsuren Amarjargal |
| Aronne Travaglia | Jack Lanza | Malik Oliver | Umar Ahmad |
| Caleb Roger | Jasmine Mund | Marley Ottman | Xiaoqing Huang |
| Camila Boix Mansilla | Jenifer Avellaneda Diaz | Nicholas Mecham | Xucheng Zhao |
| Caroline Seyffert | John Mobley IV | Saleem Al Dajani | Yang Zhang |
| Emile Germonpre | Juzel Lloyd | Samuel Garcia | |
| Gengchen Li | Knight Yeboah | Saskia Van Nieuwstadt | |



2019: PARIS, FRANCE

- | | | | |
|--------------------|--------------------|-----------------------|----------------------|
| Adnan Wisudhaputra | Christos Sarafidis | Pedro Morino Martinez | Vighnesh Candassamy |
| Ajit Bastola | Dinara Ermakova | Pierre Clement Simon | Santhanamani |
| Albert Houghton | Hadiza Mohammed | Rodrigo de Oliveira | Viljami Yli-Hemminki |
| Alexia Mercier | Hareth AlMaskari | Ruaridh Macdonald | Yana Moysak |
| Anna Benarosch | Igor Gawron | Sara Ferry | |
| Azusa Konno | Jake Littlepage | Shirley Eseigbe | |
| Bianca Carpinelli | Jakub Damian | Shono Fujiyama | |
| Charlyne Smith | Kiira Kalmi | Victor Richet | |



2018: BERKLEY, CALIFORNIA, USA

Ahmed Alshehhi	Jake Quincey	Richard Reyixiati
Benjamin Lilley	James Egelhoff	Repukaiti
Brian Shen	Jordan Perrone	River Bennett
Charles Goodman	Matthew Herald	Shane Gallagher
Dylan Scallo	Jeremiah Mbazor	Valentin Pauly
Edward Chen	Nicole Virgili	Yuqiao (Joy) Fan
Francisco Fidalgo	Priyarshini Ghosh	



2016: BERKLEY, CALIFORNIA, USA

Abdalla Abou Jaoude	Cindy Rodriguez	Mark Mawdsley	Oscar Espinoza
Andrea Saltos	Garon Morgan	Megan Casper	Richard Pearson
Andres Alvarez	Ian Hamilton	Michael Martin	Sarah Stevenson
Aristidis (Aries) Loumis	James Kendrick	Milos Atz	Shrey Satpathy
Arun Khuttan	Jing Hu	Modeste Tchakoua	Steve Clement
Boris Hombourger	Kathryn Yates	Tchouaso	
Chris Poresky	Kyle Brumback	Nikhil Bharadwaj	



2017: BERKLEY, CALIFORNIA, USA

Adria Peterkin	Hassan Qarra	Michael Ford	Efstathios (Stathis) Vlassopoulos
Alyssa Hayes	Jonathan Gjemso	Mitch Negus	Susan Hakimzadeh
Ari Krause	Julie George	Mitchell Sinclair	Vivek Maradia
Calvin Parkin	Katie Mummah	Monica Rodriguez	Xiaojun Zhang
Cliff Ghiglieri	Lenka Kollar	Nkiruka Menankiti	
Courtney McLean	Logan Smith	Pavel Velkovsky	
Dane de Wet	Logan Turk	Phillipe Larochelle	
Dylan Addison	McKinleigh McCabe	Shirly Spath	

THE PEOPLE WHO MAKE IT POSSIBLE OUR PRESENTERS

The Nuclear Innovation Bootcamp would not be possible without the time and energy devoted by its community of presenters. These individuals represent a wide range of backgrounds from both within and outside of the nuclear energy sector. The experience they provide helps our participants to learn lessons from a wide range of industries and disciplines.

By actively seeking out presenters from beyond the nuclear energy space, NIB is becoming a forum with the demonstrated ability to host cross-cutting conversations and build bridges to other climate-and innovation-focused communities.

2023: TOKYO, JAPAN

Adrien Couet, University of Wisconsin Madison

Braden Goddard, Virginia Commonwealth University

Christine King, Gateway for Accelerated Innovation in Nuclear

Elizabeth Helvey, North Wind Services, LLC

Gen Endo, Tokyo Institute of Technology

Hidemasa Yamano, Japan Atomic Energy Agency

Hideki Kamide, Japan Atomic Energy Agency

Hiroshige Kikura, Tokyo Institute of Technology

Hideharu Takahashi, Tokyo Institute of Technology

Hirofumi Okada, Tepco

Judi Greenwald, Nuclear Innovation Alliance

Kazuaki Kito, Hitachi

Kazuhito Asano, Toshiba

Ken Kahn, Old Dominion University

Kuniaki Kawabata, Japan Atomic Energy Agency

Lenka Kollar, Helixos

Leslie Dewan, Radiant Nano

Matt Thompson, Zap Energy

Michael Short, MIT

Mitsuru Uesaka, Japan Atomic Energy Commission

Naoaki Okuzum, International Research Institute for Nuclear Decommissioning

Rachel Slaybaugh, DCVC

Rudy Murgo, Nuscale

Satoshi Okada, Hitachi

Naoto Iizuka, TEPCO

Satoru Kamohara, Mitsubishi Industries

Shinichi Koyama, Japan Atomic Energy Agency

Teruki Fukumatsu, Toshiba

Thomas Rusert, Tor House Foundation

Takehiko Tsukahara, Tokyo Institute of Technology

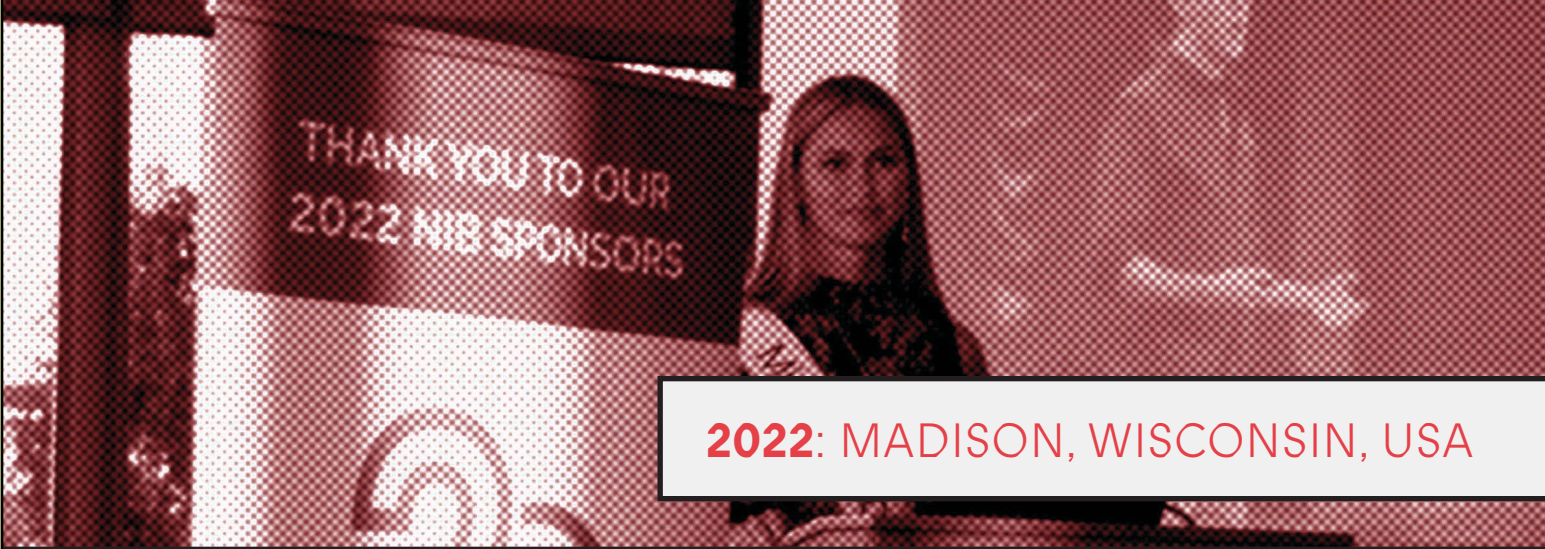
Tatsuya Katabuchi, Tokyo Institute of Technology

Toru Obara, Tokyo Institute of Technology

Tomohiko Arai, Research and Development Bureau

Yasuhiro Yuguchi, Toshiba Corporation

Yoshikazu Koma, Japan Atomic Energy Agency



2022: MADISON, WISCONSIN, USA

Aditi Verma, University of Michigan
Alexia Mercier, OECD Nuclear Energy Agency
Ashley Finan, Idaho National Lab
Ben Lindley, Realta Fusion
Bianca Carpinelli, International Atomic Energy Agency
Carly Anderson, Prelude Ventures
Catherine Clark, DOE Office of Clean Energy Demonstrations
Caroline Cochran, Oklo
Chris Ritter, Idaho National Laboratory
Cindy Vestergaard, RKVST, Inc
Chantell Murphy, Y-12 National Security Complex
Christine King, Idaho National Laboratory
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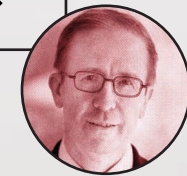
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THE PEOPLE WHO MAKE IT POSSIBLE

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Present and past organizers and advisors of the Nuclear Innovation Bootcamp represent a broad array of expertise across multiple disciplines in the global nuclear energy space



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OUR LASTING IMPACT



The success of advanced nuclear energy will undoubtedly depend on the development of groundbreaking technologies. However, this will require more than just investing in scientific research; it will come from investing in the people and expertise-building that brings about widespread, rapid innovation.

Our definition of “experienced leadership” must adapt to meet the new challenges of this century. A career built on advanced degrees and traditional industry experience alone will not provide the insight needed for nuclear energy to find the spaces and applications where it will thrive. The Bootcamp is proud to continue identifying and enhancing the careers of a new class of leaders, ready to meaningfully contribute to the urgent environmental, climate, and energy challenges of this century.

TESTIMONIALS

"If I could sign up again, I would in a heartbeat"

- Aronne Travaglia '23

"I appreciate everything that the organizers did to make this happen, it was an incredible experience and I will forever be grateful to have been considered."

- Jenifer Avellaneda Diaz '23

"Overall I'm really happy with the program since it provided a lot of perspective I don't get as a reactor physicist. A lot of policy, finances, and speaking lessons that were overdue for me to learn."

- Samuel Garcia '23

"THANK YOU THANK YOU THANK YOU! What an incredible experience - it was truly life-changing for me and I hope to stay in touch with many people from the Bootcamp."

- Jared Hoffman '22

TESTIMONIALS

"No words can describe how grateful I am to have attended NIB for 2 full weeks."

- Yanuar Ady Setiawan '22

"This was an extremely interesting and insightful conference, I am grateful for this opportunity and will definitely take the learning forward to initiate a change in mindset on operations within my company. Thank you everyone for a terrific 2 weeks!"

- Hareth AlMaskari '19

"The people chosen to attend the Bootcamp were absolutely perfect. Such a diverse range of people from all over and from many different backgrounds. Usually, when I attend these things I feel like such the odd one out. The only black person in the room, the only person of a different religion, the only woman, the only immigrant, the only person with a non-conventional work history. But at the bootcamp it was different and I felt 100 percent comfortable and relaxed and at home with the mix of people present."

- Hadiza Mohammed '19

"Best 2 weeks. First time I loved sleepless nights"

- Vighnesh Candassamy Santhanamani '19

COMPANY SPOTLIGHT

Caelus Corporation

Initially an idea born at the Nuclear Innovation Bootcamp in 2022, Caelus Corporation, led by NIB Alum Alessio Iluvia, has since become a real-world company with a bright future. Caelus is the first and only software company that aims to ensure a reduction in the time and costs related to the licensing of new nuclear technologies. This is all possible thanks to the insights, knowledge, and hard work of a team close-knit and determined to shake up the nuclear power industry. Caelus Corporation intends to distribute cutting-edge software available to companies in the nuclear industry. To do that, they developed a fully integrated, AI-powered modular environment. This will allow engineers to standardize their workflow and automatically produce licensing documents required for the industrial deployment of new nuclear technologies, focusing on S.M.R. reactors. Caelus Corporation's goal is to reduce costly and time-consuming mistakes that an engineer may commit in carrying out complex and iterative projects that must follow strict and copious regulations. Their mission is to enable nuclear energy by putting a revolutionary tool in the hands of engineers. Their vision is to foster the path toward a rightful energy transition.



Alpha Nur

Though not initially thought up at Bootcamp, both founders of Alpha Nur (Kevin O'Sullivan and Mason Rodriguez Rand) attended the Nuclear Innovation Bootcamp in 2022 and, according to co-founder and CEO Kevin O'Sullivan, "so much of what I am has been refined and defined by my time at NIB." Alpha Nur's mission is to build the country's safe, clean, affordable, and secure energy future with modernized nuclear energy. To do so, Alpha Nur is working to fuel tomorrow's reactors with sustainably sourced nuclear fuels. Their values include early and continuous engagement with host locality stakeholders. Alpha Nur is one example of how the skills obtained from NIB can be used to create innovative ideas and businesses.

BOOTCAMP THROUGH THE YEARS

OUR LASTING IMPACT

OUR LASTING IMPACT

