IMPACT REPORT

NUCLEAR INNOVATION BOOTCAMP

2016-2025

CONTENTS

INTRODUCTION

Since 2016, **The Nuclear Innovation Bootcamp (NIB)** has enhanced the careers of students and early-career 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 multi-disciplined, creative, and energetic young talent.

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

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

NIB centers on the NIB participants and every year we continue to learn from our growing alumni network made up of the 196 participants of our eight Bootcamps. 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

Christine King
GAIN

Rachel Slaybaugh
DCVC

Todd Allen
University of Michigan

OUR MISSION

In 2016, Dr. Rachel Slaybaugh founded the Bootcamp to inspire and train a new generation of nuclear professionals. 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 students and early career professionals from various 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 and work together on team design projects that are pitched to a panel of expert judges on the last day.

Dr. Rachel Slaybaugh

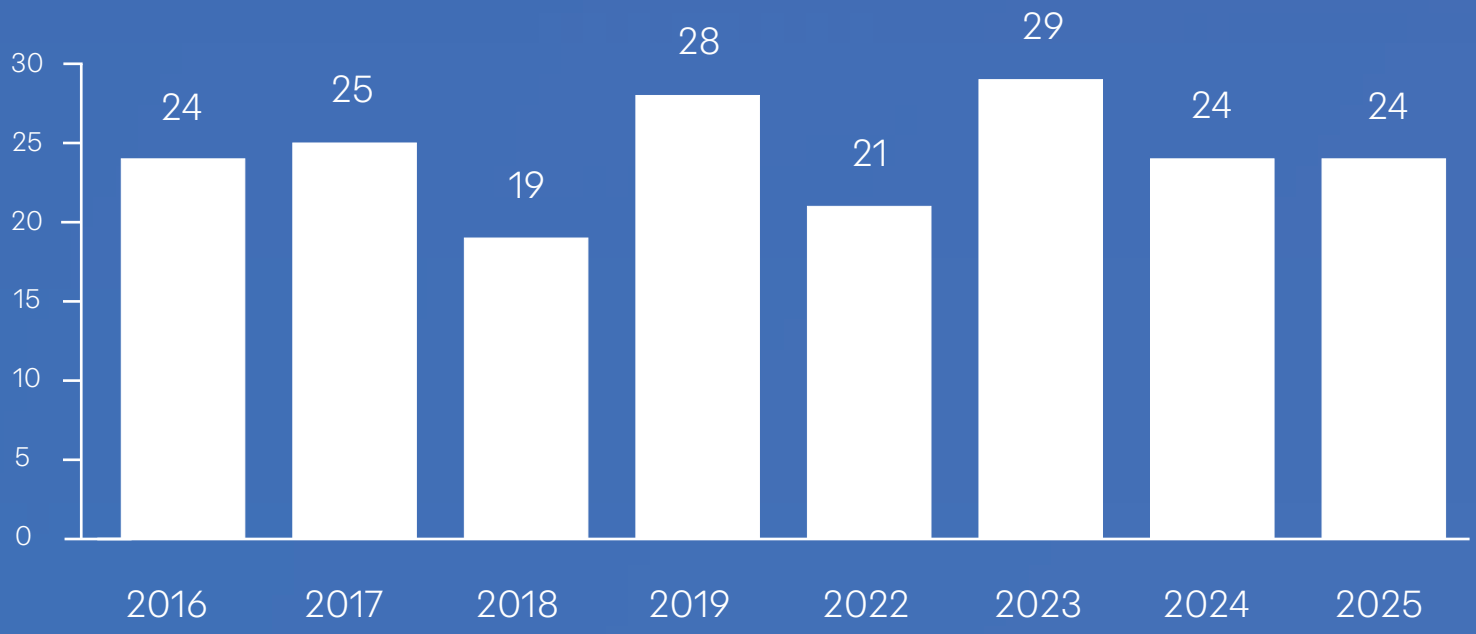
& CORE VALUES

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 innovative 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.

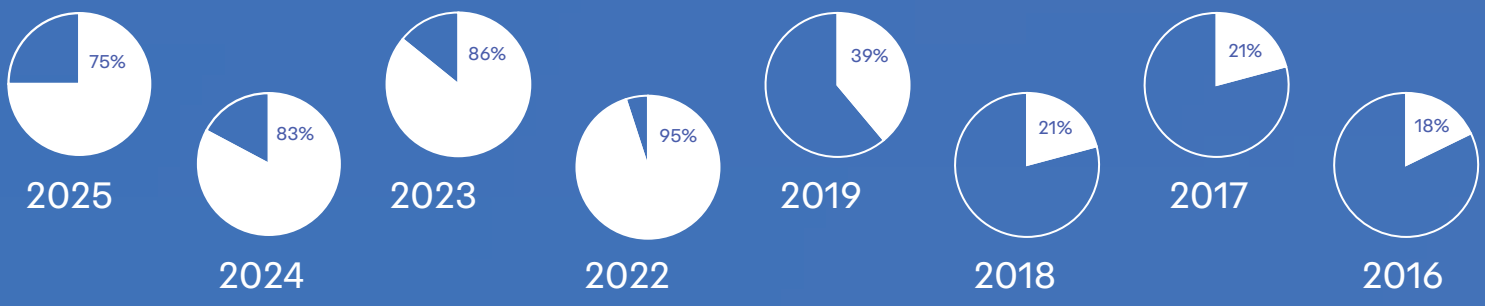
BROADENING PERSPECTIVES

A central belief of NIB is that promoting a wider range of voices and perspectives in the nuclear energy sector is necessary to build a dynamic, competitive, and productive future workforce. 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 fostering representation within NIB by striving to include a wide range of disciplines and communities in any and every way possible.

BOOTCAMP PARTICIPANTS

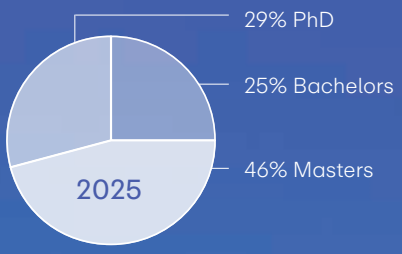


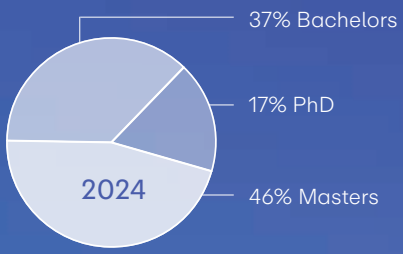
SURVEY RESPONDENTS

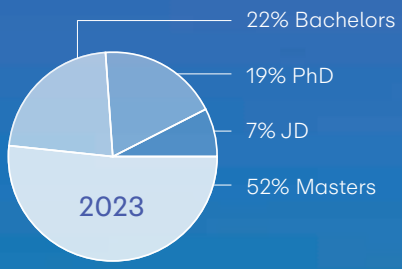


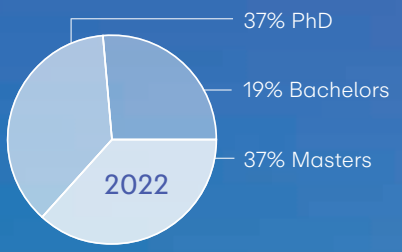
DEMOGRAPHICS

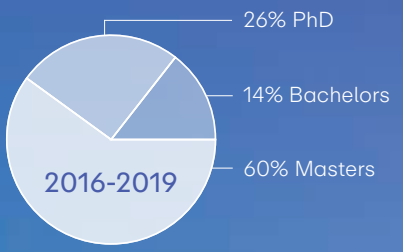
Average participant age 26.5





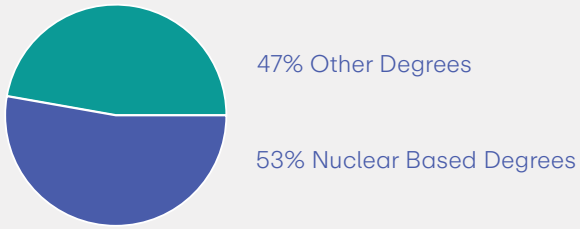


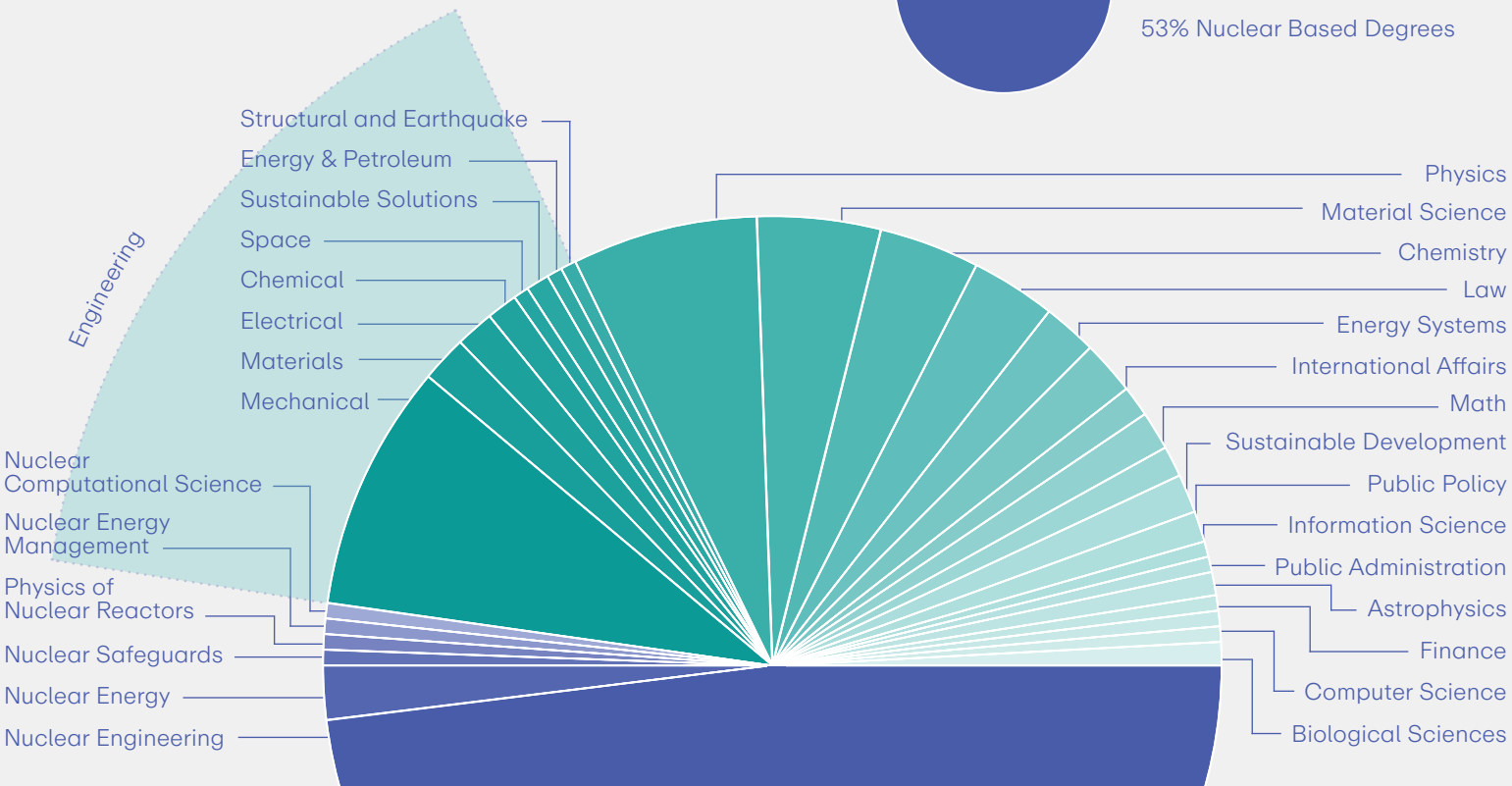




DEGREE DISCIPLINES

The Nuclear Innovation Bootcamp welcomes a wide range of individuals with different backgrounds. Applicants must demonstrate a passion for nuclear energy; as a result, the majority of participants have studied nuclear energy in some capacity, 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 such as law, public policy, and international relations.





WHERE ARE THEY COMING FROM?

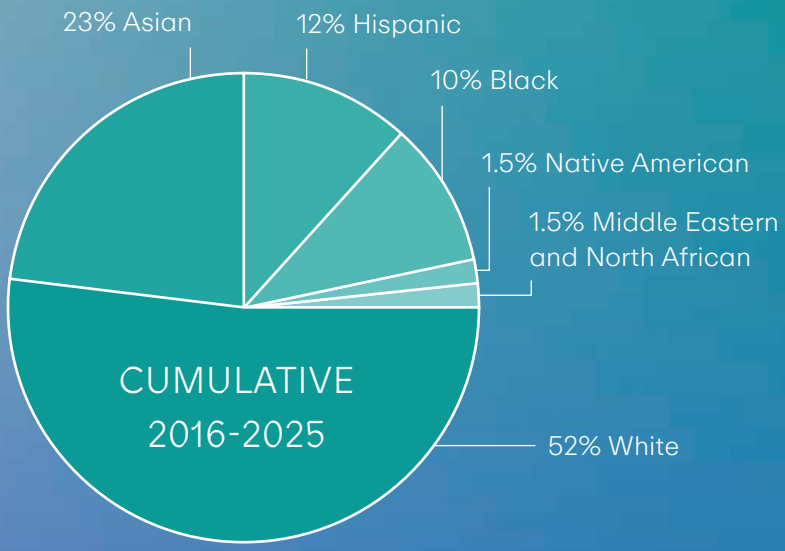
American University
Air Force Institute of Technology
AGH University of Science and Technology
Australian National University
Bayero University
Cornell University
Cambridge University
CentraleSupélec
Delft University of Technology
Duke University
Eth Zurich
École Polytechnique
École Polytechnique Fédérale de Lausanne
Georgia Institute of Technology
George Washington University
Gadjah Mada Nucleargraduates
Howard University
Hokkaido University
Imperial College London
Johns Hopkins University
Kano Brandeis
Kyushu University
Korea Advanced Institute of Science and Technology
KTH Royal Institute of Technology
Kansas State University
Lancaster University
LAB University of Applied Sciences
Military Institute of Science and Technology
Massachusetts Institute of Technology
North Carolina State University
Northeastern University
Northwestern University
Osaka University
Oregon State University
The Ohio State University
Oxford University
Polytechnic University of Puerto Rico
Purdue University
Pennsylvania State University
Politecnico di Milano Sapienza
Rutgers University
Sorbonne University
Technical University of Berlin
San Jose State University
SDA Bocconi School of Management
The Open University
Texas A&M
University Tecnológico de Monterrey
Tokyo Institute of Technology
University of Florida
Università di Roma Scheme
University of North Carolina, Charlotte
University of Illinois
University of Tennessee, Knoxville
University of Cambridge
University Colorado School of Mines
Ulsan National Institute of Science and Technology
University at Buffalo
University of Manchester
University of Chicago
University of Portsmouth
University of Liverpool
Université Paris-Est Créteil
University of Illinois Urbana-Champaign
University of Ontario
Institute of Technology
University of Michigan
University of New South Wales
University of Sheffield
University of New Brunswick
University of Manchester
Universidad Politécnica de Madrid
University of Buenos Aires
Universitas Gadjah Mada
University of Missouri
University of Glasgow
University of Georgia
University Wisconsin-Madison
Universidad Nacional Autónoma de Honduras
University of Sydney
University of Utah
University of West Bohemia
University of Wyoming
Virginia Commonwealth University
William and Mary University
Wellesley College
Yale University

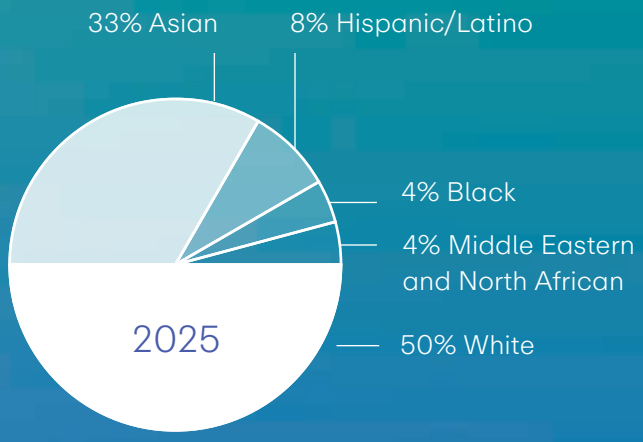
WHERE ARE THEY NOW?

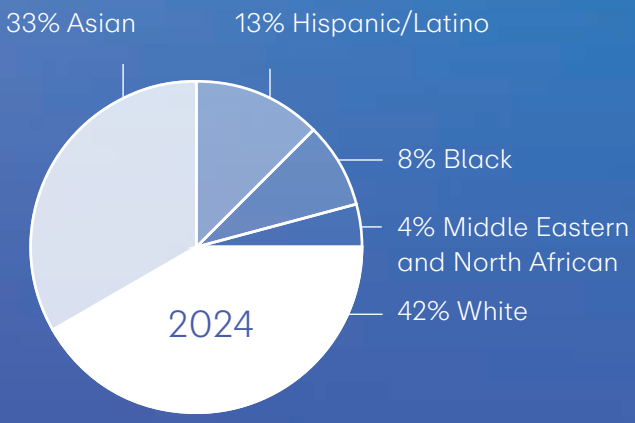
NIB Alumni's current companies and organizations!

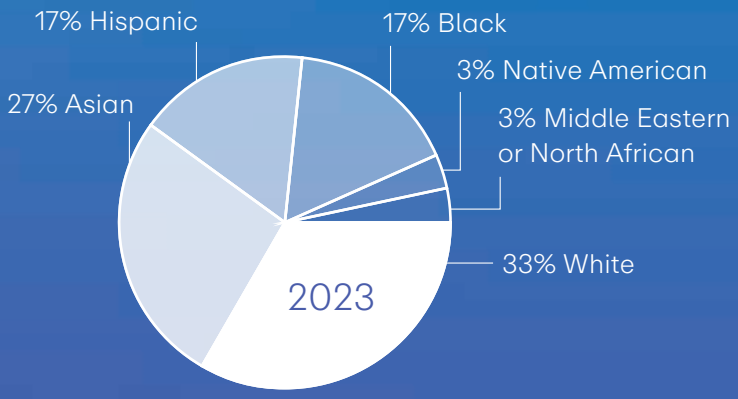
AFRY
Alpha Nur
Argonne National Laboratory
ARUP Laboratories
Assystem 2
ASML
ATG Europe
Atlantic Council
Aquafil
BAE Systems
Belgian Federal Agency for Nuclear Control
BG&E
Blixt Group
Breakthrough Energy
Breakthrough Institute 4
Bright Strategies
CAELUS
Center on Global Energy Policy
Clearpath
Commonwealth Fusion Systems
EPRI
entX Limited 2
EY - Parthenon
Framatome
Frame Cancer Therapeutics
GenH
Goodnews College
Good Energy Collective
Helixos
Homecooks
Hummingbird Scientific
Idaho National Laboratory 3
International Atomic Energy Agency 3
Jacobs
Kairos 5
Kyoto Fusioneering
KPMG US
Lawrence Livermore National Laboratory
Los Alamos National Laboratory
MIT 3
miHoYo
NASA
Nationale Genossenschaft für die Lagerung radioaktiver Abfälle
National University of Mongolia
NAAREA
Naval Sea Systems Command
NextEra Energy Resources
North Carolina State University
nucleareurope
Nuclear Decommissioning Authority
OECD Nuclear Energy Agency
Ofgem
Ontario Power Generation
Oak Ridge National Laboratory
Philippine Nuclear Research Institute
PwC 2
Radiant
Radical Energy and Material
RenU Fuel Solutions
RINA
Saramin
Subsea7
SPARK Alliance
Sandia National Laboratory
Siwabessy Initiative
TerraPower
TAQA Group
TRACTEBEL
Ultra Safe Nuclear
United States Air Force
United States Navy
UK Atomic Energy Authority
University of Bristol
University of Sydney
University of Wisconsin-Madison
Ulsan National Institute of Science and Technology
Urenco Capenhurst
Vantaan Energia Oy
Vector Atomics
Ventures
Voltus
VTT
Washington Policy & Analysis
Westinghouse Electric 3
WBUR
X - energy

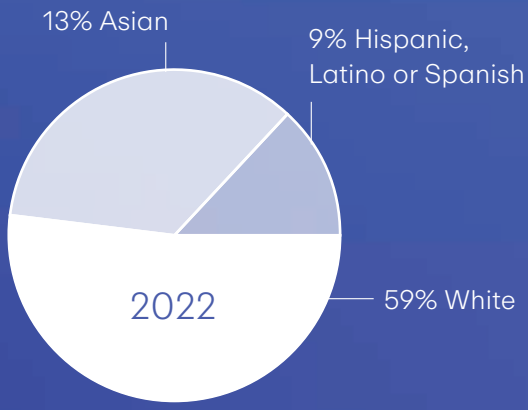
DEMOGRAPHICS

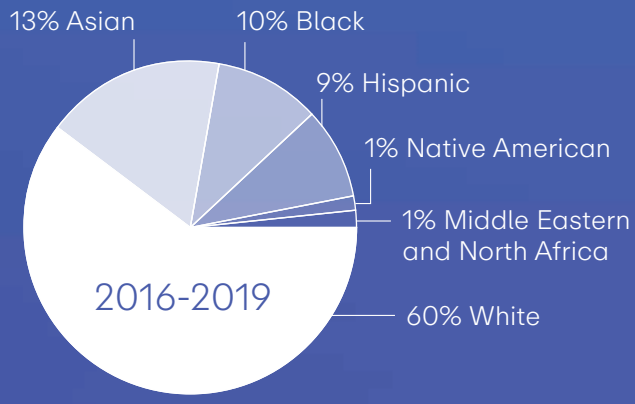




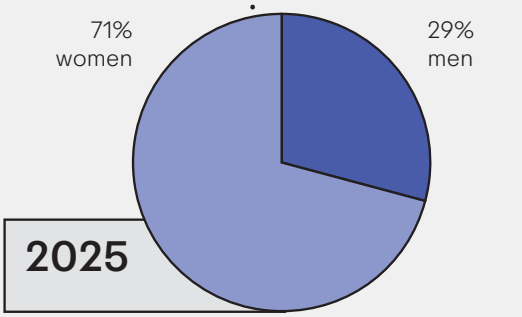


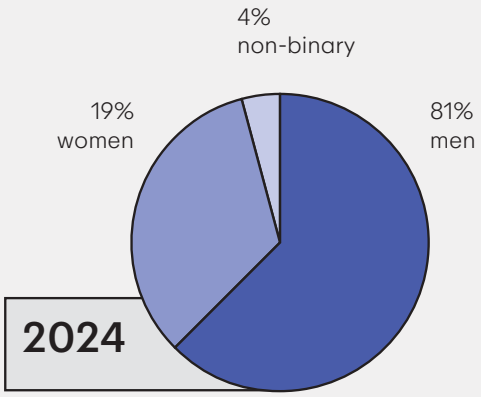


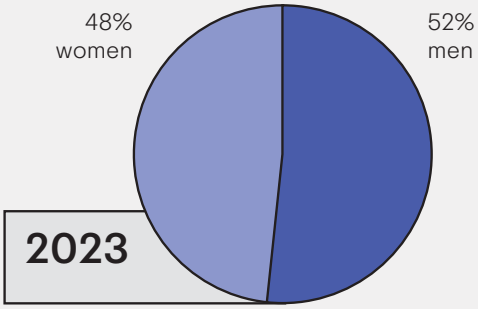


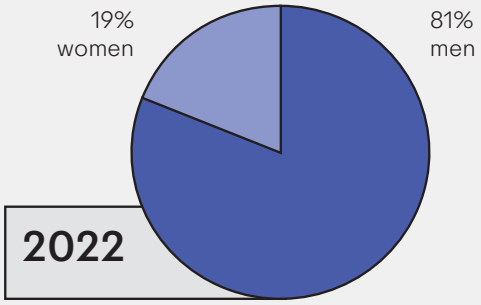


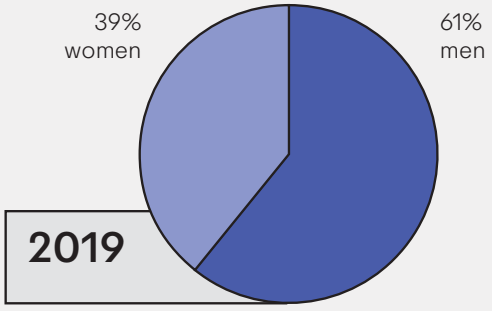
2025 was our first majority women cohort!

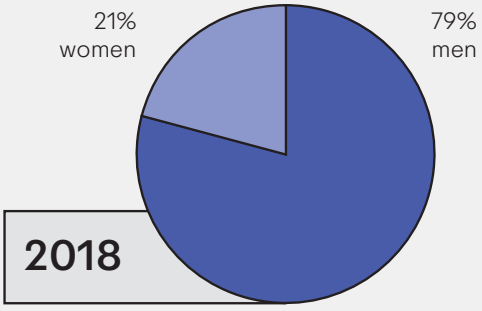


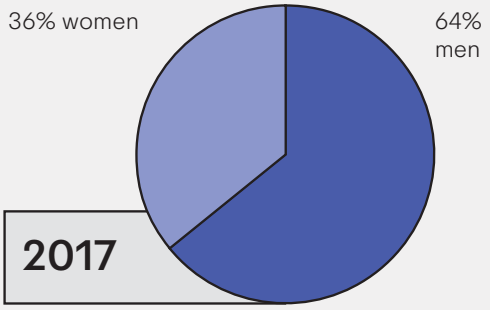


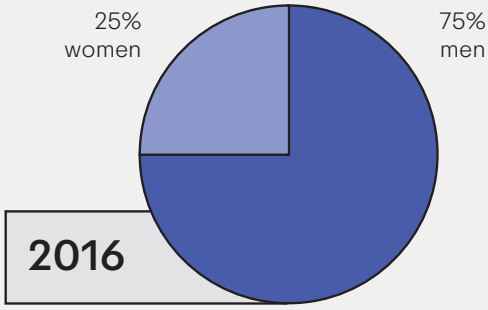






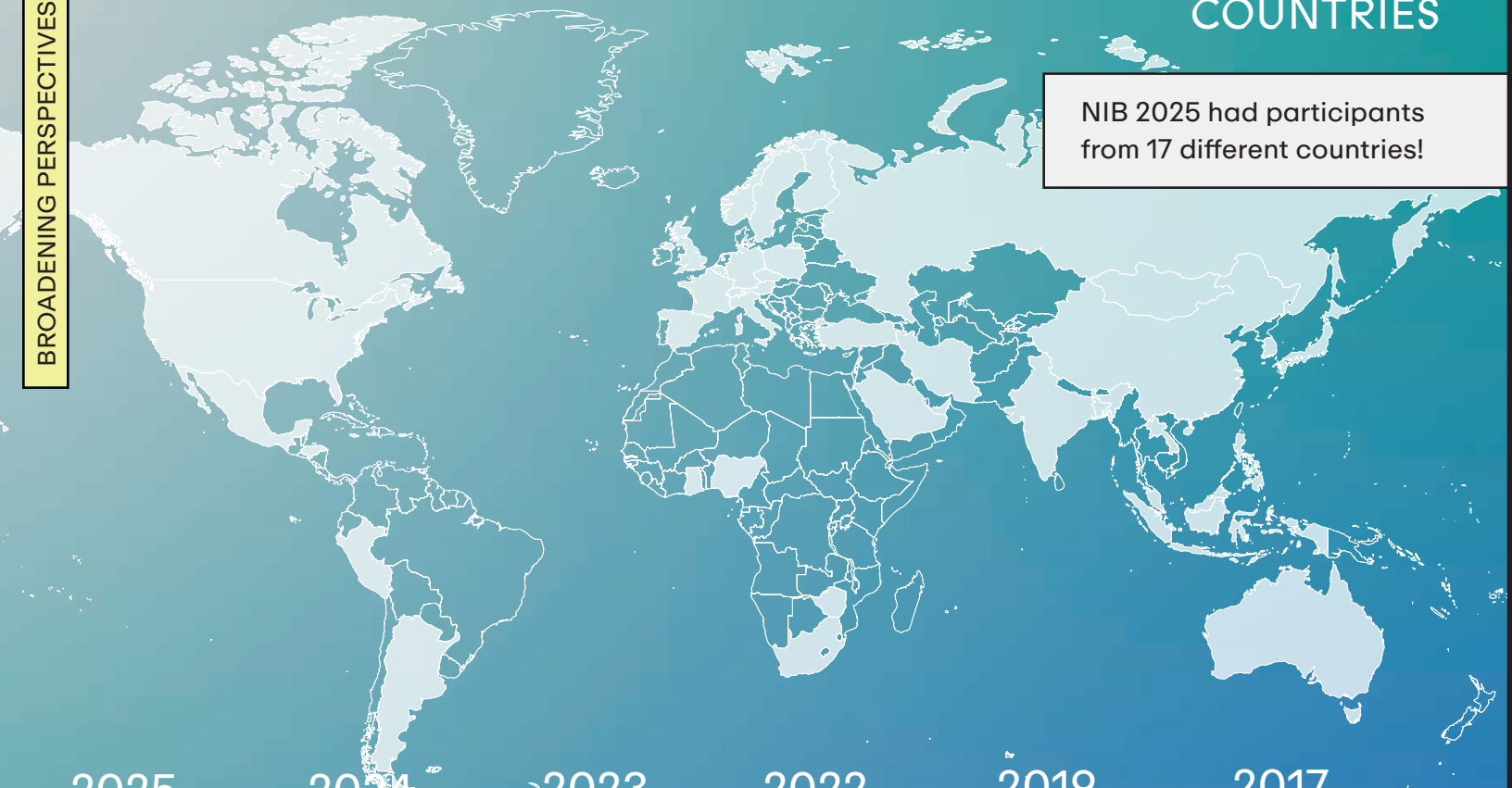






COUNTRIES

NIB 2025 had participants from 17 different countries!



2025
India
Australia
Iran
Malaysia
Turkey
Italy
Peru
Czech Republic
Finland
Singapore
Indonesia
Zimbabwe
Poland
Spain
France
US
China

2024
Argentina
Bangladesh
Canada
Ghana
Honduras
India
Italy
Japan
Philippines
Poland
Russia
Saudi Arabia
Spain
United Kingdom
Vietnam

2023
Argentina
Austria
Belgium
China
Germany
Ghana
Italy
Jamaica
Mexico
Mongolia
Nigeria
United Kingdom
United States
Saudi Arabia
South Africa
Switzerland

2022
Indonesia
Italy
Lebanon
South Korea
Spain
United Kingdom
United States

2019
Argentina
Austria
Finland
France
Indonesia
Japan
Sweden
Switzerland
United Kingdom
United States

2018
Austria
China
India
United Arab Emirates
United Kingdom
United States

2017
Canada
China
Nigeria
Puerto Rico
Switzerland
United Arab Emirates
United Kingdom
United States

2016
Canada
China
France
India
United Kingdom
United States

Over the past 8 years, NIB has hosted participants from 69 countries around the globe!

OUR CROSS-CUTTING CURRICULUM

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

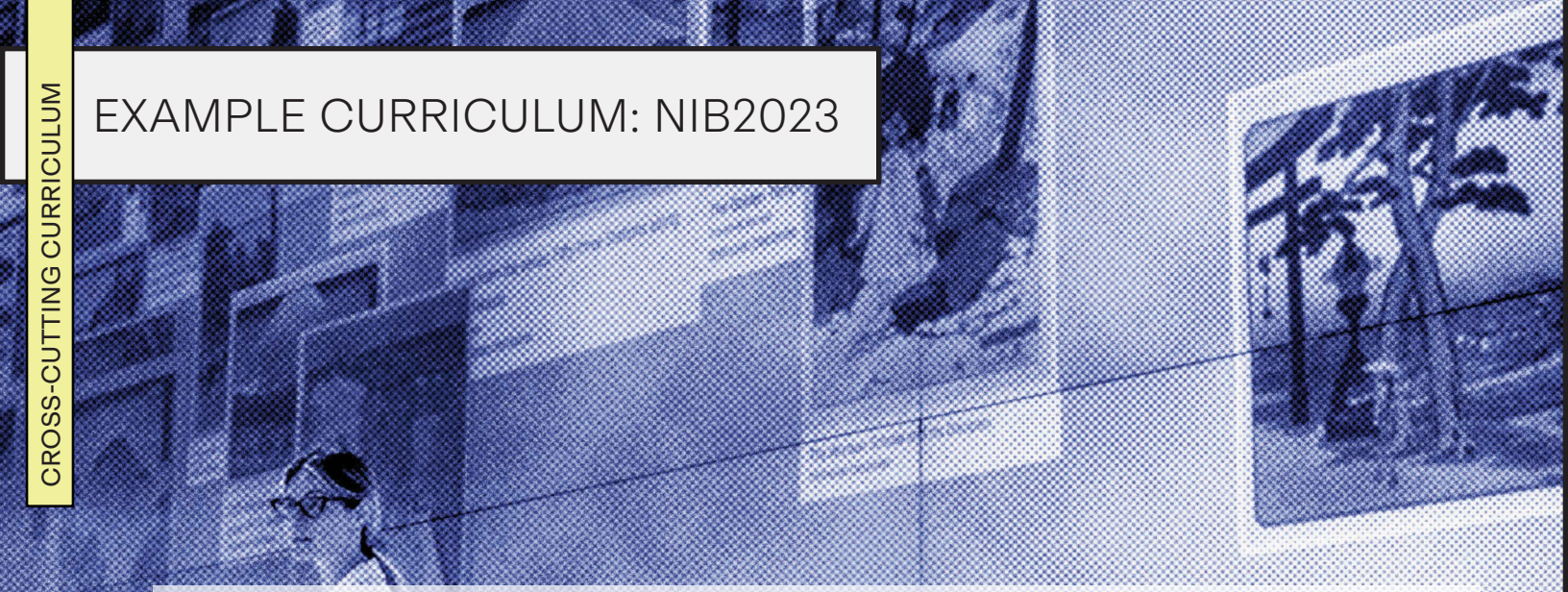
- Venture fundamentals
- Methods for idea generation and critique
- Cross-cutting needs in nuclear energy systems
- Product development and marketing
- Advanced reactor designs
- Community and stakeholder engagement
- Venture and institutional financing
- Climate change and environmental justice
- Challenges 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
8:30		Intros		Finance & Bizz	Field Trip	Field Trip
9:00		Breakfast	Breakfast	Breakfast		Travel to NPS by Bus
9:30		Introduction + Logistics	Business Model & Financial Analysis	Reactor Decomissioning Technology Development	Travel to Fukushima by Bus	
10:00		Break				Tokyo Electric Power Company Fukushima Daiich Nuclear Power Station
10:30		Nuclear Innovation Bootcamp Context		Break		
11:00		Nonproliferation Associated with Fuel Reprocessing	Break	Team Project Work		
11:30			Advanced Nuclear Energy Policy		Arrive at Fukushima	
12:00	Participant Check in	LUNCH	LUNCH	LUNCH	LUNCH at Fukushima	LUNCH
12:30						
1:00		The Need for Innovative Clean Energy Systems for the Future	Idea generation pt. 2 Refine & Evaluate	Team Project Work	Japan Atomic Energy Agency Naraha Center for Remote Control Technology Development	Leave to Tokyo by Bus
1:30						
2:00		Panel Discussion				
2:30		Break	Break			
3:00		Idea Generation pt.1	Idea generation pt. 3 Validate + groups selection			
3:30						
4:00	Meet & Greet Social	Break				
4:30		Opening Keynote Speaker		Travel to After Hour Social	Travel to Hotel	Dinner
5:00			Dinner	After Hour Social	Arrive at Hotel	
5:30		Travel to Opening Reception Venue			Dinner	1st Project Presentation & 1 min pitch
6:00						
6:30		Opening Dinner & Drinks with Guest Speaker and Presenters from the Day				
7:00						
7:30						
8:00						
8:30						

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

MENTORING

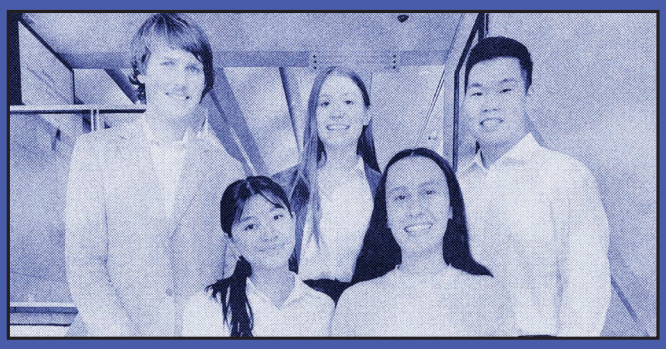
The team design project constitutes a significant portion of the Nuclear Innovation Bootcamp. Throughout the two weeks, participants work in small groups on a venture that will have technical and non-technical components touching upon a wide range of topics. Team members do not have expertise in most 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.



2025 - GammAway

Melody Ranger, Anne Moncuit, Lachlan Crawford, Hannah Azman, and Clayton Feng

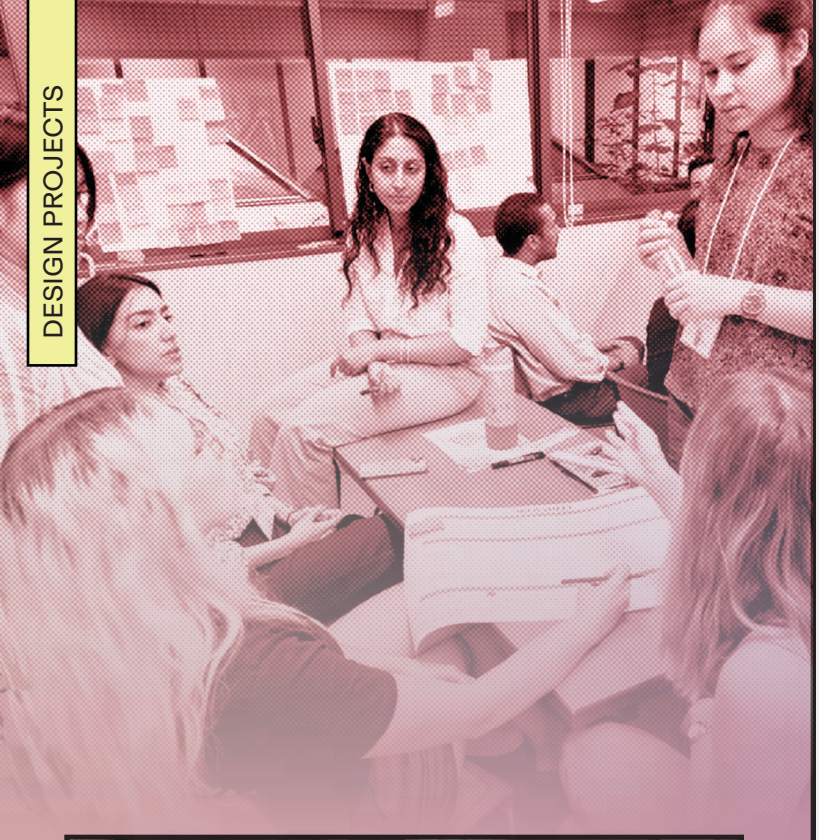
GammAway utilises Cobalt 60 (Co-60) as a gamma ray emitter to eliminate spoilage and pathogen microbes of Australian produce within the original packaging provided to exporters. This sterilization process at higher doses upwards of 10 kGy inhibits bacteria and parasites' growth. This ensures transparency and quality assurance in accordance with Food Standards Australia and New Zealand (FSANZ) and Australian Radiation Protection and Nuclear Safety Agency (ARPANSA), whilst complying with approved regulatory bodies, including United Nations (UN). GammAway provides a service to irradiate and sterilize produce in pre-existing packaging, enabling longer preservation times or meeting high-cost demands for cold-temperature transportation. This allows exportation of fresh produce to international markets via boat routes in larger volumes at a lower cost.

2024 - CritiCality

CJ Cruz, Dennis Rodriguez, Destiny Howell, Esther Ollennu, Nisa Rahnuma Aziz, Thomas Viscovich

Nuclear energy plays a key part in ensuring the sustainable future of energy and yet it remains shrouded in mystery and misconceptions. Most kids have very limited to no exposure to the peaceful usage of nuclear energy which in turn affects their choice of career paths and overall understanding of nuclear technologies. CritiCality aims to change this.

Set in the control room of a nuclear reactor, this role-playing game allows the player to safely bring the reactor to criticality and not only teaches them the process of how electricity is generated from the splitting of atoms but also its role in the reduction of greenhouse gas emissions.



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.

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

2019 - Glacial Melt Mitigation Services (GMMS)

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

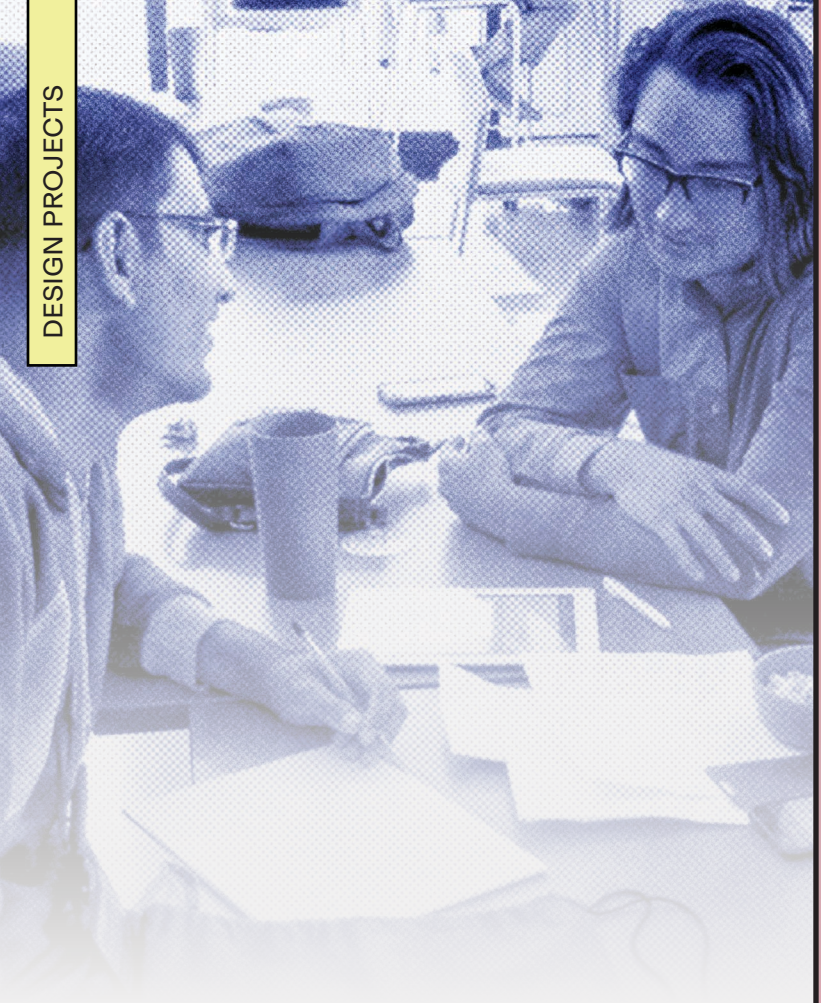
Glacial Melt Mitigation Services (GMMS) is a consulting company that helps national governments, NGOs, and nuclear vendors harness nuclear power to avoid the catastrophic consequences of climate-change induced glacial melt. There are many geoengineering proposals to prevent the melting of ice sheets 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.

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.

18



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.

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ClearPath

Terrestrial Energy

UNSW Nuclear Innovation Centre

Nuclear Innovation Alliance

GAIN — Gateway for Accelerated Innovation in Nuclear

The University of Wisconsin Madison

good energy collective

Battelle

Anthropocene Institute

Kairos Power

USV

NEI — Nuclear Energy Institute

INL — Idaho National Laboratory

Fastest Path to Zero — University of Michigan

Nuclear Engineering & Radiological Sciences — University of Michigan

2024

Nuclear Innovation Alliance

University of Wyoming

GAIN — Gateway for Accelerated Innovation in Nuclear

The University of Wisconsin Madison

Morgan Lewis

Anthropocene Institute

Battelle

INL — Idaho National Laboratory

good energy collective

DCC

NEI — Nuclear Energy Institute

IYNC — International Youth Nuclear Congress

Rocky Mountain Power

ClearPath

NEDHO — Nuclear Engineering Department Heads Organization

USV

GCNP — Gender Champions in Nuclear Policy

Fastest Path to Zero — University of Michigan

Nuclear Engineering & Radiological Sciences — University of Michigan

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Anthropocene Institute

2022

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BATTELLE

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NUCLEAR INNOVATION ALLIANCE

2019

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National Nuclear Laboratory

SCK·CEN

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Institute for Nuclear Energy Systems

Eric Gracyalny & Sama Bilbao y León

NEA Nuclear Energy Agency

NA Nuclear Innovation Alliance

2018

The University of Wisconsin Madison

third way fresh thinking

NUSCALE Power for all humankind

TERRESTRIAL ENERGY

Nuclear Engineering University of California Berkeley Est. 1958

The Rothrock Family

pillsbury

CalTeach

NA Nuclear Innovation Alliance

2017

BECHTEL

NEI Nuclear Energy Institute

Winston & Strawn LLP

TRANSATOMIC

Argonne National Laboratory

GAIN Gateway for Accelerated Innovation in Nuclear

EPRI Electric Power Research Institute

TerraPower A Nuclear Innovation Company

NUSCALE Power for all humankind

2016

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Southern Company

Nuclear Technology Innovation Laboratory University of California, Berkeley

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Julia Sweatman
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2023: TOKYO, JAPAN

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2022: MADISON, WISCONSIN, USA

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2019: PARIS, FRANCE

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2018: BERKLEY, CALIFORNIA, USA

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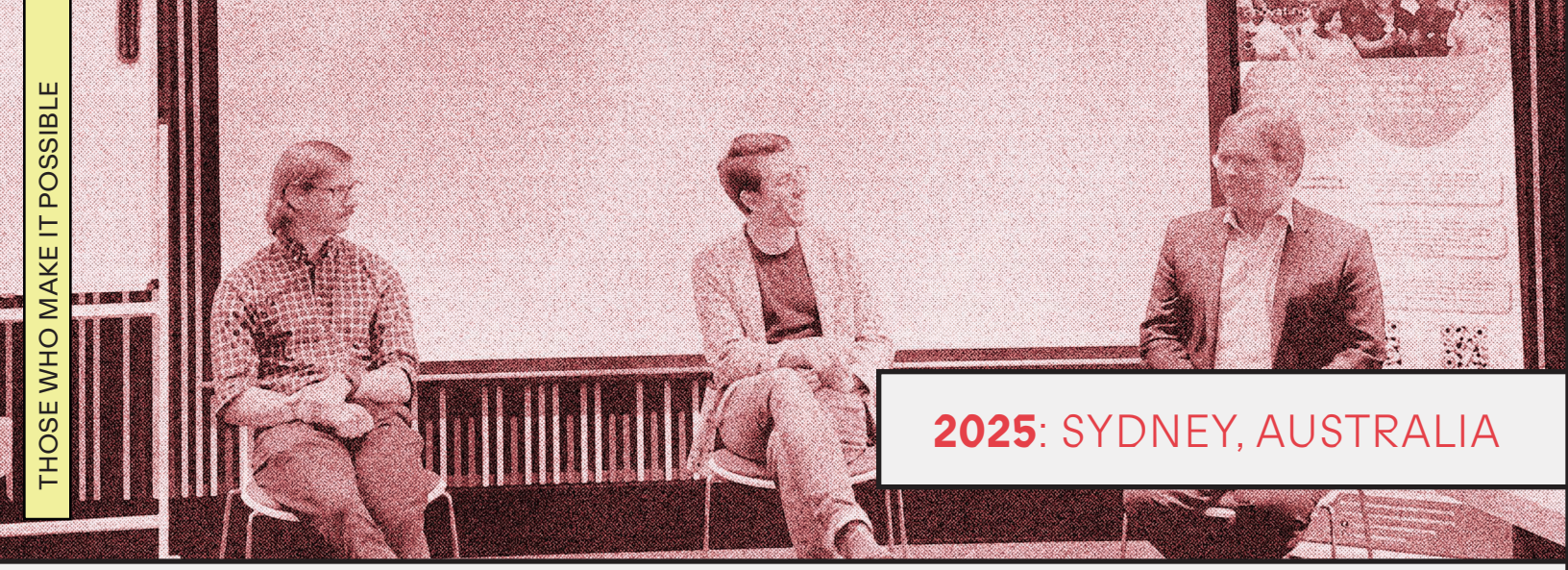
Steve Clement

THOSE 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.



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Jasmin Diab, Women in Nuclear

Kenneth Kahn, Old Dominion University

Kevin Jackson

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2024: LARAMIE, WYOMING, USA

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2017: BERKLEY, CALIFORNIA, USA

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2016: BERKLEY, CA, USA

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Todd Allen, Third Way

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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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Rachel Slaybaugh
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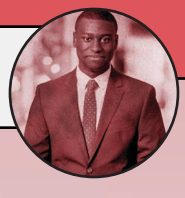
PAST ORGANIZERS



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Karl van Bibber
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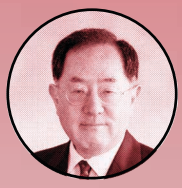

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GAIN Gateway for Accelerated Innovation in Nuclear

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AXONE / TechnipFMC

Kathy Shield
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Dr. Koroush Shirvan
Massachusetts Institute of Technology

Kiyoteru Suzuki
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Dr. Pavel Tsvetkov
Texas A&M University

Richard Vasques
Ohio State University

Gigi Wang
UC Berkeley, LUMICKS, MG-Team LLC

Yishu Qiu
UC Berkeley

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

"NIB was an amazing experience. It is hard to describe without resorting to cliche. I feel blessed to have been chosen. I feel like I learned more in the two weeks than I did in undergrad in a semester."

- Lea Booth '24

"I am so grateful for the opportunity to learn and connect with other early-career nuclear professionals"

- Jenna Järvenpää '25

"I think it truly helped me find people on the same wavelength as me"

- Destiny Howell '24

"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

"This bootcamp, with its culturally and ethnically diverse cohort, gave me a holistic understanding of what nuclear energy needs to thrive."

- Jedidiah Yuwanto '25

TESTIMONIALS

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

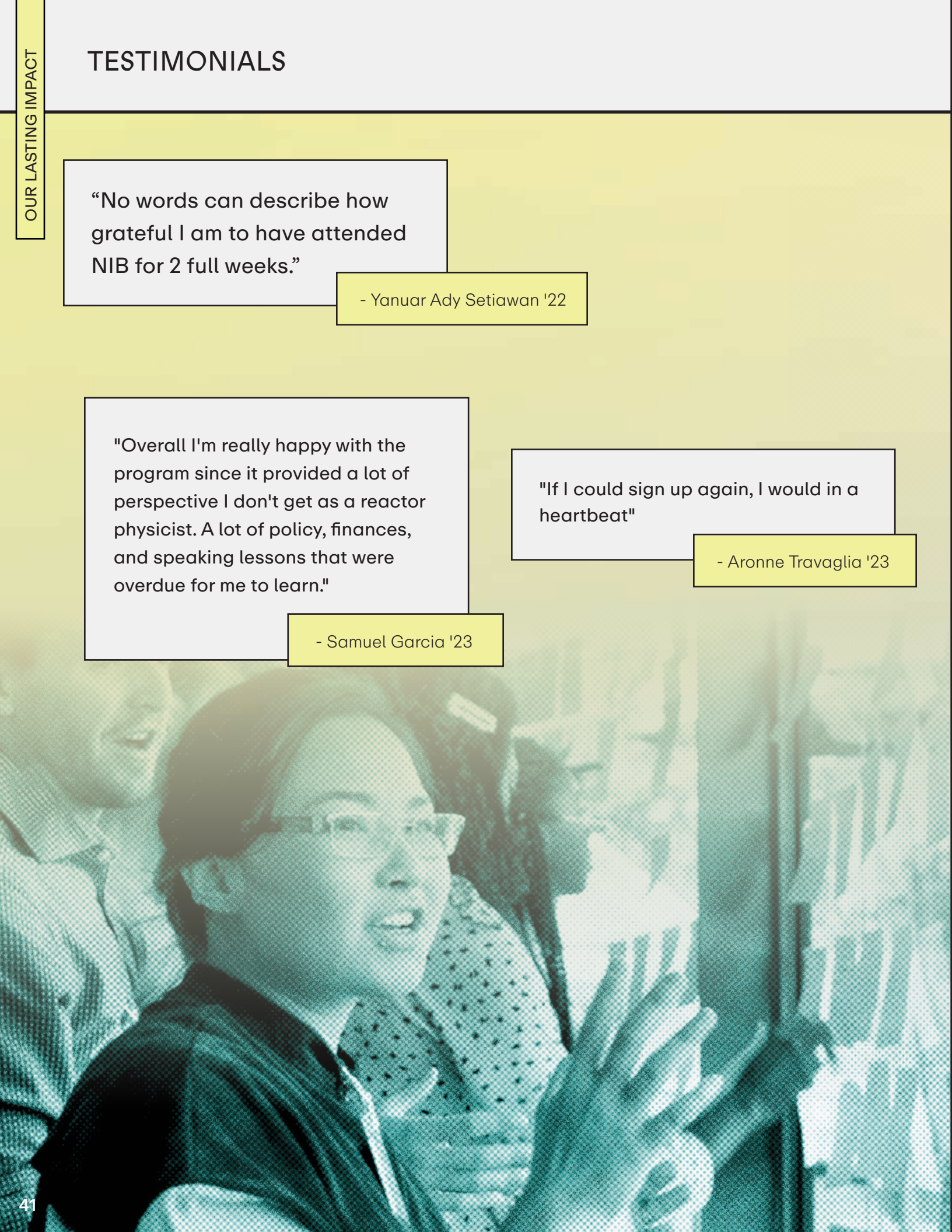
- Yanuar Ady Setiawan '22

"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

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

- Aronne Travaglia '23



TESTIMONIALS

"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 SPOTLIGHTS

CAELUS S.R.L

Initially an idea born at the Nuclear Innovation Bootcamp in 2022, CAELUS S.R.L, led by NIB Alum Alessio Iuvara, 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 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'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.

Anubis

ANUBIS was founded in the fall of 2024 by three UC Berkeley engineers. Our goal is to build a platform that allows nuclear designers, developers, and builders to better source NQA-1 components for cheaper. While not founded directly out of NIB, my time there certainly energized me to pursue entrepreneurship in nuclear and excited me to find practical solutions to the real problems the nuclear industry is facing.

One of the strongest aspects of NIB, for me, was having real industry experts and innovators come in and discuss present issues in nuclear, talk about their work in relation to them, and present future pathways for attendees. The concentration of our collective experience is in supply chain, and as it happens, robust supply chains are a keystone issue new nuclear is facing right now. The main value proposition is that our platform will broaden the components pool available to design engineers and builders, thereby lowering design and construction costs. We are excited not only about new nuclear but the growing needs of the current fleet, and are confident the supply chain needs of the industry will continue to grow.

RenU Fuel

RenU Fuel Solutions was created at the 2024 Nuclear Innovation Bootcamp, where its multinational team came together around a shared vision: transforming spent nuclear fuel from a costly liability into a clean energy asset. By harnessing residual radiation to produce zero-emission hydrogen, RenU is redefining how the nuclear industry approaches long-term fuel management. Today, the company is expanding its reach and actively competing for contests and grants in both the United States and Europe. The experience proved so valuable that RenU now nominates and supports early-career teammates for upcoming Nuclear Innovation Bootcamp cohorts.

BOOTCAMP THROUGH THE YEARS