

# 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 new 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 175 participants of our seven 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** 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.

In order to expose participants to a wide range of experiences, NIB brings together leaders from



Dr. Rachel Slaybaugh



# & CORE VALUES

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 culti-

vating 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.



Adrien Couet



# INCREASING DIVERSITY

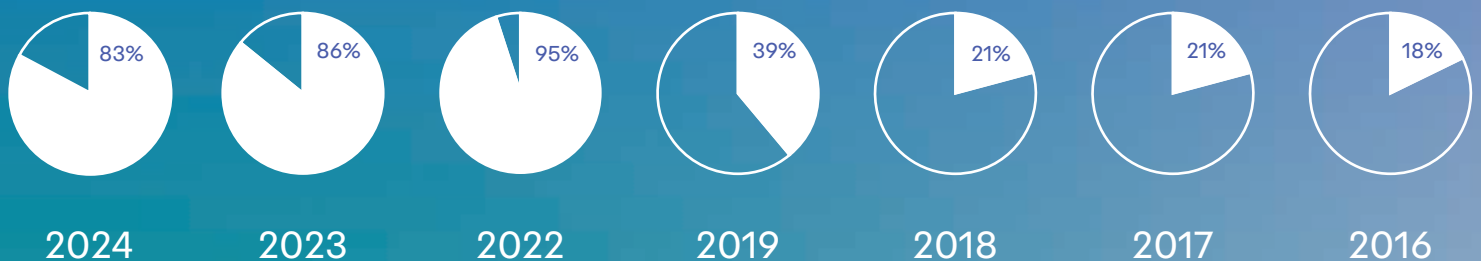
A central belief of NIB is that promoting greater diversity in the nuclear energy sector is necessary to build a dynamic, competitive, and productive future work-

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.

## BOOTCAMP PARTICIPANTS



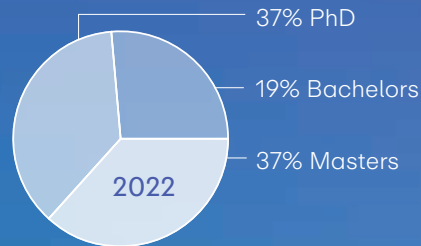
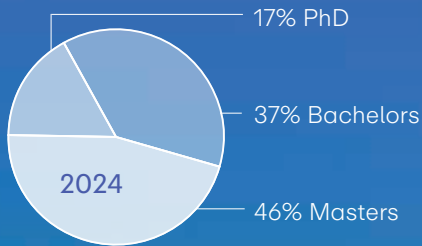
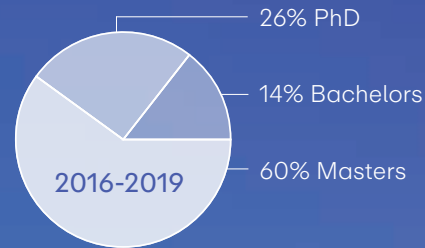
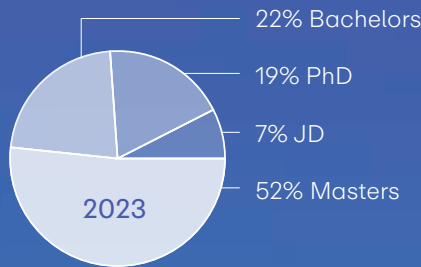
## SURVEY RESPONDENTS





# DEMOGRAPHICS

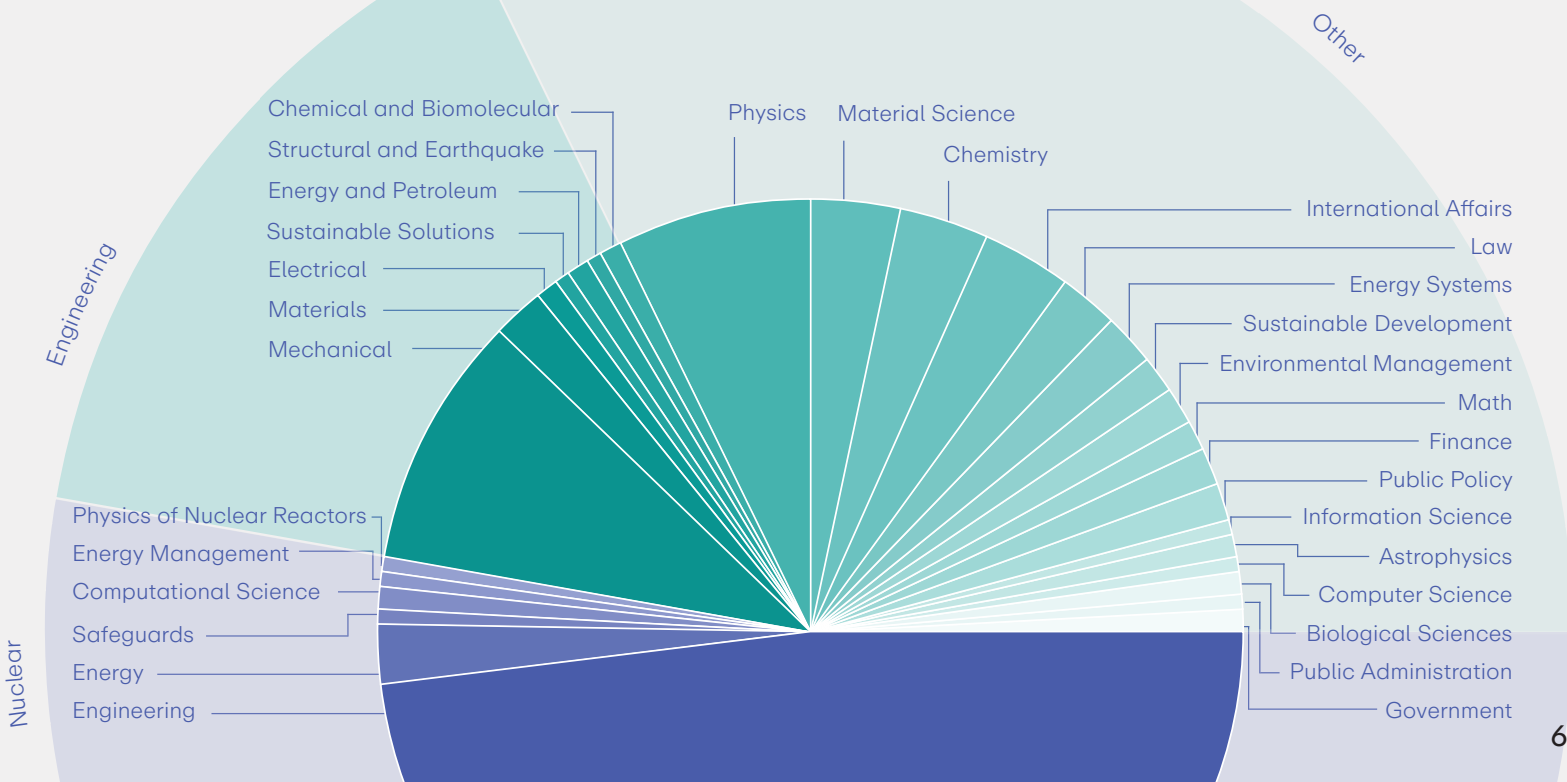
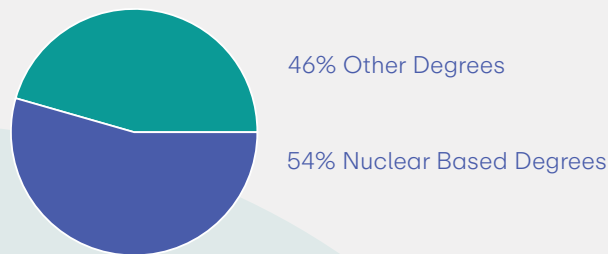
Average participant age 26.5



# 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 COMING FROM?

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

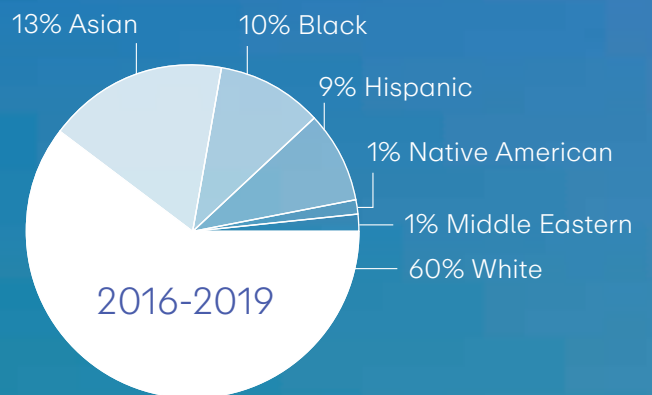
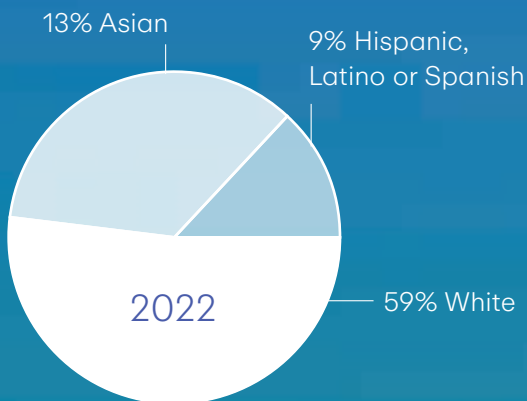
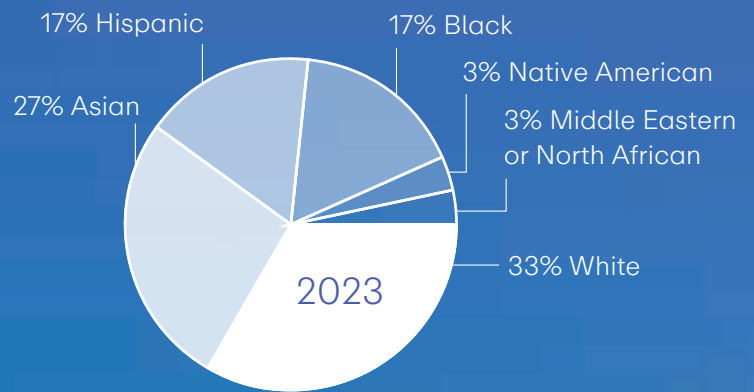
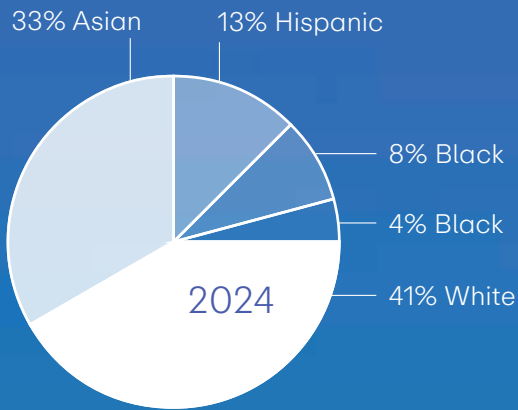
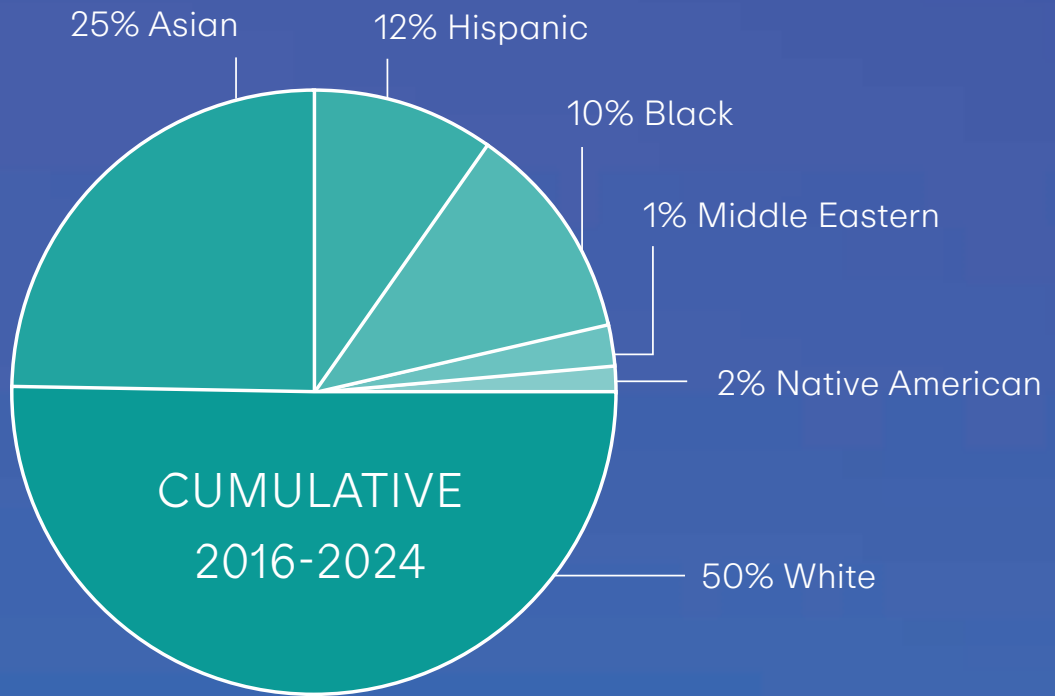


# WHERE ARE THEY NOW?

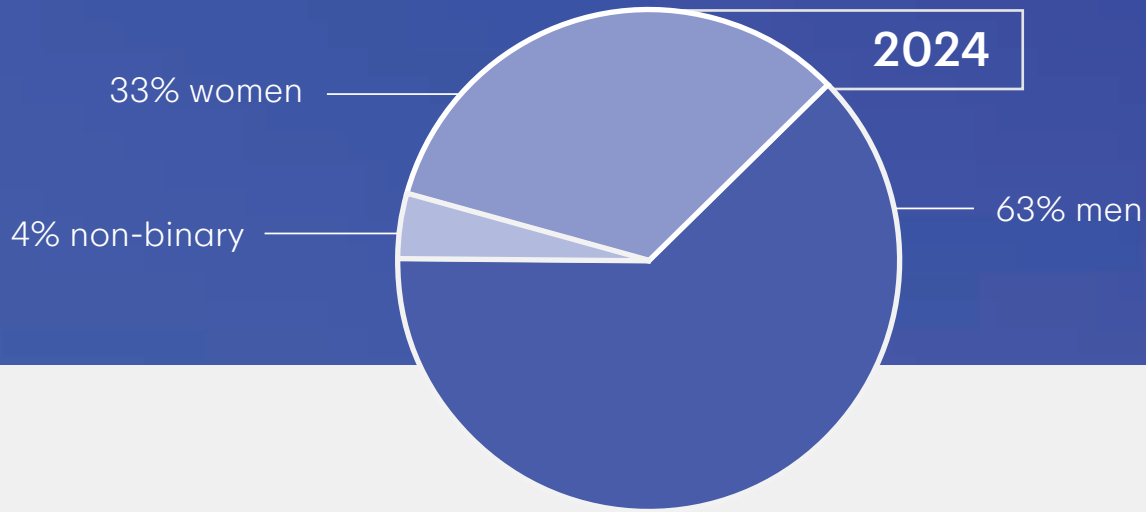
NIB Alumni's current companies!

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

# RACE

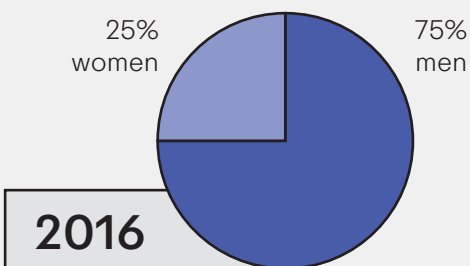
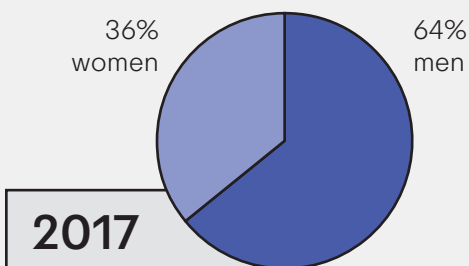
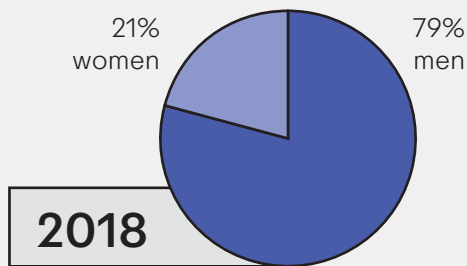
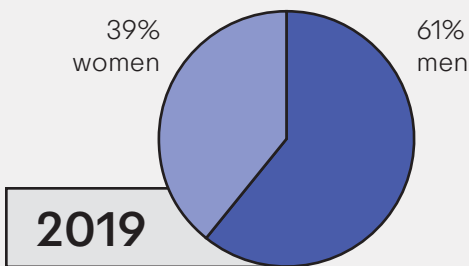
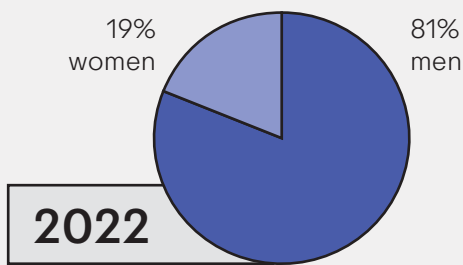
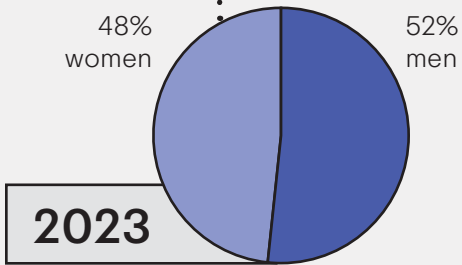






2023 had the most women of any year!

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





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 36 countries around the globe!

NIB 2024 had participants from 15 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	Business Model & Financial Analysis	Reactor Decommissioning Technology Development	Travel to Fukushima by Bus	Tokyo Electric Power Company Fukushima Daiich Nuclear Power Station
9:30		Break				
10:00		Nuclear Innovation Bootcamp Context		Break		
10:30						
11:00		Nonproliferation Associated with Fuel Reprocessing	Break	Team Project Work	Arrive at Fukushima	
11:30			Advanced Nuclear Energy Policy			
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	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						
3:30		Idea Generation pt.1	Idea generation pt. 3 Validate + groups selection			
4:00		Break				
4:30		Opening Keynote Speaker		Travel to After Hour Social	Travel to Hotel	
5:00					Arrive at Hotel	Dinner
5:30	Meet & Greet Social	Travel to Opening Reception Venue	Dinner	After Hour Social	Dinner	1st Project Presentation & 1 min pitch
6:00						
6:30						
7:00		Opening Dinner & Drinks with Guest Speaker and Presenters from the Day				
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 Decommissioning	Innovative Nuclear Energy Systems Resilient to Natural Disasters	Speaking with Credibility / Final Pitch Practice	DRY RUN: Final Pitch Practice	Participant Check-out
9:00						
9:30	Break	Break	Break	Speaking with Credibility / Final Pitch Practice	DRY RUN: Final Pitch Practice	Participant Check-out
10:00						
10:30	Radioactive Waste Management	Speaking with Credibility	Community Engagement & Communications	Speaking with Credibility / Final Pitch Practice	DRY RUN: Final Pitch Practice	Participant Check-out
11:00						
11:30	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH	Participant Check-out
12:00						
12:30	LUNCH	LUNCH	LUNCH	LUNCH	LUNCH	Participant Check-out
1:00						
1:30	Panel Discussion	Speaking with Credibility	Team Project	Rachel S. AMA (ask me anything)	Welcome	Participant Check-out
2:00						
2:30	Break	Speaking with Credibility	Team Project	Rachel S. AMA (ask me anything)	Pitches to Judges	Participant Check-out
3:00						
3:30	Speaking with Credibility (Intros to Tom)	Team Project	Team Project	Team Project	Keynote Speaker	Participant Check-out
4:00						
4:30	Team Project	Team Project	After Hour Social	Team Project	Travel to Awards Reception	Participant Check-out
5:00						
5:30	Dinner	Dinner	After Hour Social	Dinner	Closing Award Reception	Participant Check-out
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.



## 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.

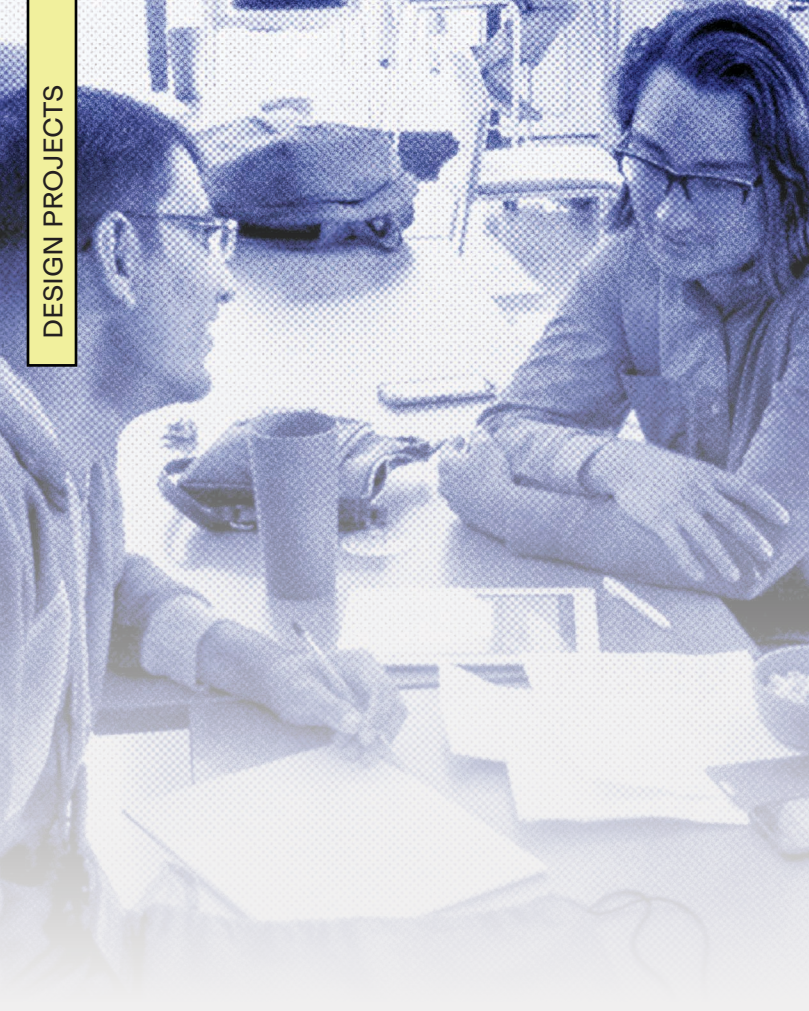
## 2018 - Testing and Irradiation of Materials (TIM)

*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.



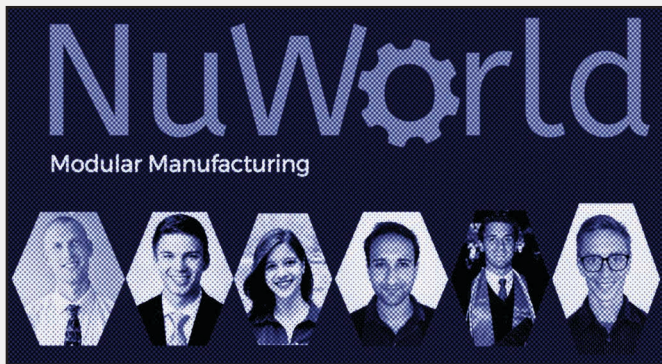




## 2016 - Auzel: Energy from Waste

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

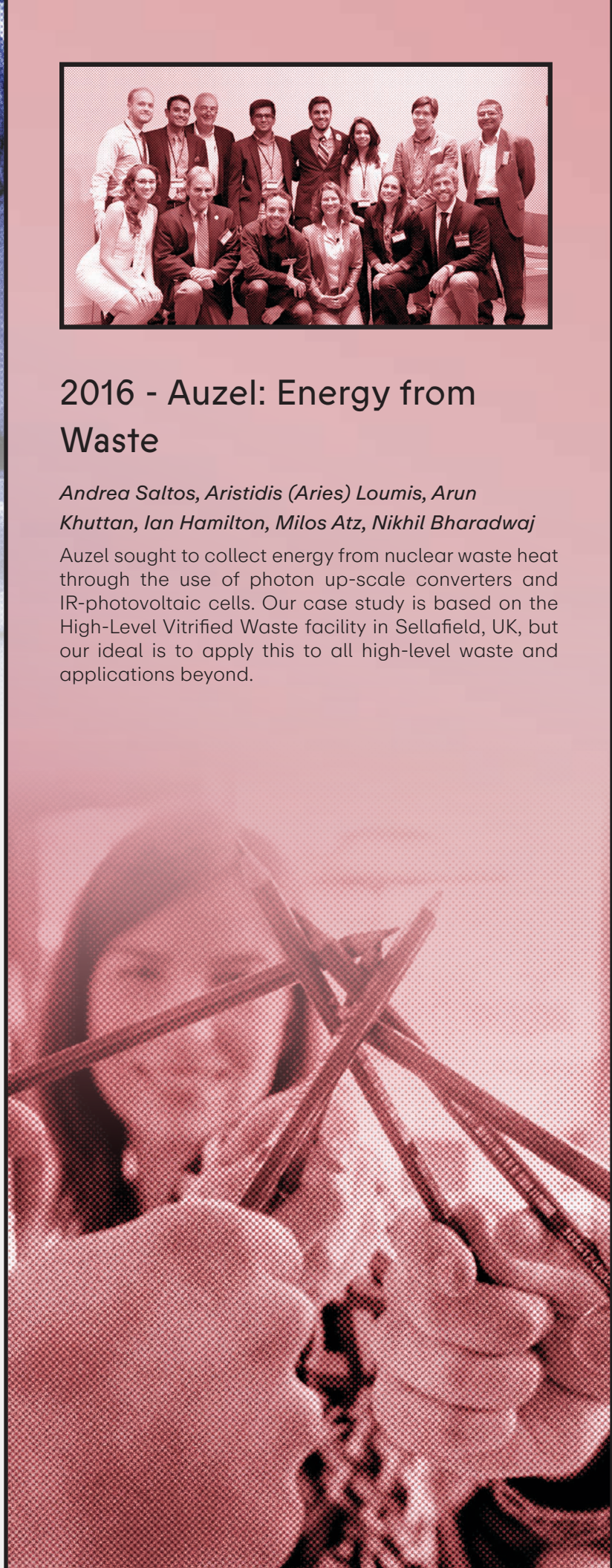
Auzel sought to collect energy from nuclear waste heat through the use of photon up-scale converters and IR-photovoltaic cells. Our case study is based on the High-Level Vitrified Waste facility in Sellafield, UK, but our ideal is to apply this to all high-level waste and applications beyond.



## 2017 - NuWorld

*Dylan Addison, Dane de Wet, Mike Ford, Alyssa Hayes, Hassan Garra, 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.





# THE PEOPLE WHO MAKE IT POSSIBLE OUR SPONSORS



2023

**BATTELLE**

**USV**

Morgan Lewis

**CLEARPATH**

**TERRESTRIAL  
ENERGY**



**NICP**

Tokyo Tech  
Nuclear Innovator Cultivation Program

**NEI**

NUCLEAR ENERGY INSTITUTE

Ross Koningstein and  
Patrisia Spezzaferro

**GCNP**  
GENDER CHAMPIONS IN NUCLEAR POLICY



Tokyo Tech



**Anthropocene Institute**

2022

**Anthropocene Institute**



Constellation

**TERRESTRIAL  
ENERGY**

**NEI**

NUCLEAR ENERGY INSTITUTE

**CLEARPATH**



**GAIN**

Gateway for Accelerated  
Innovation in Nuclear

Morgan Lewis

**GCNP**  
GENDER CHAMPIONS IN NUCLEAR POLICY



THE UNIVERSITY  
of  
**WISCONSIN**  
MADISON

**BATTELLE**

**M**

FASTEST PATH TO ZERO  
UNIVERSITY OF MICHIGAN

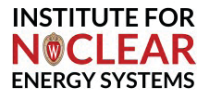
Ross Koningstein and  
Patrisia Spezzaferro



**NA**  
NUCLEAR  
INNOVATION  
ALLIANCE



Ross Koningstein and  
Patrisia Spezzaferro



Eric Gracyalny &  
Sama Bilbao y León



2019



2018



2017



2016



# THE PEOPLE WHO MAKE IT POSSIBLE OUR PARTICIPANTS



**2024:** LARAMIE, WYOMING, USA

Abdulmajeed Aljasim

Ahnaf Tahmid

Chowdhury

Alexey Burbasov

Alberto Gil Cordero

Amy Drake

Anh Nguyen

Cris Jericho Cruz

Dennis Rodriguez

Destiny Howell

Esther Ollenu

George Lea Booth

Ian Gilley

Jacob Kirby

Jordan Giese

Julia Sweatman

Kinjal Dave

Maciej Sobczyk

Om Jagtap

Rahnuma Aziz Nisa

Riccardo Villa

Simone Albanese

Thomas Viscovich

Turner Clarke

Yu Fujiwara





**2023: TOKYO, JAPAN**

THE PEOPLE WHO MAKE IT POSSIBLE

Alessandra Totaro Villar  
 Alice Ding  
 Aronne Travaglia  
 Caleb Roger  
 Camila Boix Mansilla  
 Caroline Seyffert  
 Emile Germonpre  
 Gengchen Li

Hannah Harris  
 Iva Recking  
 Jack Lanza  
 Jasmine Mund  
 Jenifer Avellaneda Diaz  
 John Mobley IV  
 Juzel Lloyd  
 Knight Yeboah

Lewis Handy-Cardenas  
 Madeleine Lewis  
 Malik Oliver  
 Marley Ottman  
 Nicholas Mecham  
 Saleem Al Dajani  
 Samuel Garcia  
 Saskia Van Nieuwstadt

Susannah Lea  
 Tsendsuren Amarjargal  
 Umar Ahmad  
 Xiaoqing Huang  
 Xucheng Zhao  
 Yang Zhang



**2022: MADISON, WISCONSIN, USA**

Alessio Iuvara  
 Amy Kynman  
 Cheng-Kai Tai  
 Coleman Smith  
 Diana Grandas  
 Harun Ardiansyah

Jared Hoffman  
 Javier Pelegrina  
 Joseph Fustero  
 Kaivalya Lal  
 Kevin O'Sullivan  
 Mason Rodriguez Rand

Max Karous  
 Natalie Houghtalen  
 Paris Porter Bradley  
 Rakhmat Eko Saputro  
 Rama Thygaraju  
 Ponangi

Shirley Yong  
 Siddharth Pannir  
 Yanuar Ady Setiawan  
 Zachary Diermyer





**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 |                   |





**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        |                                   |



**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 |                 |



# 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.







## 2024: LARAMIE, WYOMING, USA

**Alex Gebben**, University of Wyoming

**Brad Williams**, Idaho National Lab

**Charles Nye**, University of Wyoming

**Christine King**, GAIN

**Christi Bell**, Business Enterprise Institute

**Don Burkhart**, Wyoming House of Representatives

**Drew DeWalt**, Rhumbix

**Elizabeth Helvey**, North Wind Services

**Fred Yapuncich**, Terrapower

**Greyson Buckingham**, Disa Technologies

**Holly Krutka**, University of Wyoming

**Hope Morrow**, Idaho National Lab

**Jason Hansen**, Idaho National Lab

**Jessica Lovering**, Good Energy Collective

**Joe Miller**, BWXT

**Judi Greenwald**, Nuclear Innovation Alliance

**Karen Kim-Stevens**, EPRI

**Ken Kahn**, Old Dominion University

**Kevin Jackson**

**Kiley Ingersoll**, Wyoming Business Council

**Leslie Dewan**, Criticality Capital

**Mary Throne**, Wyoming Public Service Commission

**Maria Jenks**, University of Wyoming

**Melanie Armstrong**, Ruckelshaus Institute

**Natalie Houghtalen**, ClearPath

**Nick Touran**, TerraPower

**Olu Omotowa**, TerraPower

**Patrick White**, Nuclear Innovation Alliance

**Rachel Slaybaugh**, DCVC

**Rita Meyer**, TerraPower

**Rudy Murgo**

**Sean Schaub**, Wyoming Energy Authority

**Selena Gerace**, University of Wyoming

**Sharon Fain**, PacificCorp

**Scott Melbye**, Uranium Energy Corp

**Spencer Garland**, Tristate generation

**Tara Righetti**, University of Wyoming

**Todd Ansemli**, Idaho National Lab

**Todd Allen**, University of Michigan

**Travis Deti**, Wyoming Mining Association

## 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 Katabuch**, 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
- Douglas Bernauer**, Radiant
- Elizabeth Helvey**, North Wind Services
- Emma Wong**, OECD Nuclear Energy Agency
- Grace Stanke**, Miss America
- Jessica Bufford**, Nuclear Threat Initiative
- Jessica Chow**, Katapult
- Harsh Desai**, Zeno Power
- Judi Greenwald**, Nuclear Innovation Alliance

- Juliana Gutowski**, R/GA
- Jenifer Shafer**, ARPA-E
- Kenneth Kahn**, Old Dominion University
- Kim Macharia**, Space Prize Foundation
- Leslie Dewan**, Radiant Nano
- Lenka Kollar**, Helixos
- Lou Martinez Sancho**, Kairos Power
- Michael Mazur**, Department of Energy
- Nick Touran**, Terra Power
- Patrick White**, Nuclear Innovation Alliance
- Paul Wilson**, University of Wisconsin-Madison
- Richard Pearson**, The Journal Of Fusion Energy
- Ross Radel**, SHINE
- Ray Rothrock**, FiftySix Investments
- Rebeka Seemann**, Entergy
- Rachel Slaybaugh**, DCVC
- Robert Braun**, ARC
- Thomas Rusert**, Tor-House Foundation
- Tyler Bernstein**, Zeno Power
- Uuganbayar Otgonbaatar**, Constellation
- Zainub Dungarwalla**, Narrative Shift Communications



## 2019: PARIS, FRANCE

**Adrien Couet**, University of Wisconsin Madison

**Ana Paula Serond**, Orano

**Ashley Finan**, Nuclear Innovation Alliance

**Benoît Blassel**, Assystem

**Canon Bryan**, Terrestrial Energy

**César Alejandro Hernández**, International Energy Agency

**David Hess**, World Nuclear Association

**Delphine Buisson**, EURUS

**Ed Bradley**, International Atomic Energy Agency

**Eda Aksoy**, Google

**Elsa Lemaître-Xavier**, Andra

**Fiona Rayment**, National Nuclear Laboratory

**Gaël Patton**, Garage 2067

**Gregory Piefer**, SHINE Medical Technologies

**Hakima Qrichi-Aniba**, CEA Saclay

**James Magowan**, Deetken Capital

**John Parsons**, MIT

**Ken Kahn**, Virginia Commonwealth University

**Kirsty Gogan**, Lucid Catalyst

**Kirsty Hewitson**, National Nuclear Laboratory

**Manuele Aufiero**, Milano Multiphysics

**Marc Boucker**, EDF

**Maria Isabel Machado**, Assystem

**Martín Gamizo**, Nuclearis

**Martin Thai**, euRHasi

**Mathieu Saint-Louis**, ANDRA

**Michel Laberge**, General Fusion

**Mireille Martini**, OECD

**Nathalie Collignon**, Orano

**Nathan Paterson**, Foratom

**Paul Evans**, ENEA Consulting

**Rebecca Sands**, Sciences Po

**Rebecca Tedesse**, OECD NEA

**Roger Garbil**, European Commission

**Sama Bilbao y León**, OECD-NEA

**Sebastien Diaz**, Nuvia

**Sécolène Perin**, ELSAN

**Shannon Bragg-Sitton**, Idaho National Laboratory

**Stéphane Kaufmann**, Ubisoft

**Sylvestre Pivet**, CEA Saclay

**Troels Schönfeldt**, Seaborg Technologies

**Ursula Johnston**, Gowling WLG

**Valérie Faudon**, Société Française d'Énergie Nucléaire

**Valerie Gardner**, Nucleation Capital LP

**Véronique Rouyer**, OECD-NEA

**Vivian Croes**, Airbus

**William D. Magwood**, OECD-NEA

**Yves Desbazeille**, Foratom





## 2018: BERKLEY, CALIFORNIA, USA

**Adrien Couet**, University of Wisconsin Madison

**Adrienne Little**, ARPA-E

**Alex Polonsky**, Morgan Lewis & Bockius

**Alexandra Wall**, UC Berkeley

**Allison Rinaldi**, ARGONAUT

**Amy Roma**, Nuclear Regulatory Commission

**Anne Leidich**, Pillsbury Winthrop Shaw Pittman

**Ben Goodrich**, TerraPower

**Braden Goddard**, Virginia Commonwealth University

**Candace De Messieres**, Nuclear Regulatory Commission

**Caroline Winnett**, SkyDeck

**Chris Comfort**, Southern Nuclear

**David Kramer**, Blach

**Derick Ogg**, Department of Energy

**Dipender Saluja**, Capricorn Investment Group

**Fernando Pérez**, UC Berkeley

**Gigi Wang**, UC Berkeley

**Greg Piefer**, SHINE Medical Technologies

**Jacob DeWitte**, Oklo

**Jerry Bischof**, Dominion Energy

**Jessica Lovering**, Breakthrough Institute

**Jit Bhattacharya**, Fenix International

**Joel Fetter**, Booz Allen

**John Park**, VC Taskforce

**Ken Kahn**, Virginia Commonwealth University

**Korosh Shirvan**, MIT

**Lara Pierpoint**, Exelon

**Lenka Kollar**, NuScale

**Levon Keusseyan**, GE

**Lucas McCann**, Macalester College

**Maria Millan**, CIRM

**Marilyn Waite**, Hewlett Foundation

**Melanie Warrick**, Google

**Michael Corradini**, University of Wisconsin Madison

**Nick Touran**, TerraPower

**Phil Larochelle**, Breakthrough Energy Ventures

**Rachel Slaybaugh**, UC Berkeley

**Raluca Scarlat**, University of Wisconsin Madison

**Ray Rothrock**, RedSeal, Inc.

**Richard Meyer**, Kairos Power

**Richard Muller**, Deep Isolation

**Ron King**, Electric Power Research Institute

**Shelby Williamson**, barrettSF

**Suzanne Gaulocher**, Plymouth State University

**Suzy Baker**, Third Way

**Sydney G. Roberts**, Commonwealth Center for Advanced Manufacturing

**Thomas Rusert**, Skilled Speaking

**Todd Allen**, Third Way

**Tsu-Jae King Liu**, UC Berkeley

**Tyson Smith**, Winston & Strawn LLP



## 2017: BERKLEY, CALIFORNIA, USA

**Adam Sterling**, UC Berkeley

**Adrien Couet**, University of Wisconsin Madison

**Adrienne Little**, ARPA-E

**Alex Cheung**, Tri Alpha Energy

**Alex Polonsky**, Morgan Lewis & Bockius

**Antoine de Morree**, Stanford University

**Bruce Pittman**, NASA

**Carol Berrigan**, Nuclear Energy Institute

**Chris Comfort**, Southern Nuclear

**Craig Piercy**, American Nuclear Society

**Dan Recht**, Volute, Inc.

**David Kramer**, Southern Company Information Technology Organization

**Dietram Scheufele**, University of Wisconsin-Madison

**Florent Heidet**, Argonne National Laboratory

**Ian Hamilton**, Purdue University

**Joe Kowalczyk**, Southern Company Information Technology Organization

**John Carlisle**, Chain Reaction Innovations

**Jose Reyes**, NuScale

**Josh Walter**, TerraPower

**Kat Manalac**, Y Combinator

**Ken Kahn**, Virginia Commonwealth University

**Korosh Shirvan**, MIT

**Marilyn Waite**, Village Capital

**Matt Thompson**, Tri Alpha Energy

**Max Fratoni**, UC Berkeley

**Mike Laufer**, Kairos Power

**Milos Atz**, UC Berkeley

**Paul Lorenzini**, NuScale

**Pete Moran**, DCM Ventures

**Philip C Hildebrandt**, Idaho National Laboratory

**Rachel Slaybaugh**, UC Berkeley

**Ravi Prasher**, Lawrence Berkeley National Laboratory

**Rita Baranwal**, Gateway for Accelerated Innovation in Nuclear

**Ron King**, Electric Power Research Institute

**Sam Shaner**, Yellowstone Energy, Inc.

**Sama Bilbao y León**, Virginia Commonwealth University

**Sara Harmon**, UC Berkeley

**Spencer Nelson**, ClearPath

**Todd Allen**, Third Way





## 2016: BERKLEY, CA, USA

Adam Scheider, Advanced Reactor Solutions LLC

Alex Cheung, Tri Alpha Energy

Alex Polonsky, Morgan Lewis & Bockius

Andy Klein, Oregon State University

Bala Ramamurthy, Positron Dynamics, Inc.,

Behnam Taebi, Delft University of Technology

Benjamin Reinke, U.S. Senate Committee on Energy and Natural Resources

Beth Zotter, Cyclotron Road

Brenden Heidrich, Idaho National Laboratory

Canon Bryan, Terrestrial Energy

Chris Comfort, Southern Nuclear

David Charpie, Dun & Bradstreet

David B. Matthews, Nuclear Regulatory Commission

Dennis Hussey, Electric Power Research Institute

Doug Crawford, Oak Ridge National Laboratory

Ed Blandford, University of New Mexico

Gaetan Bonhomme, Kurion

Gigi Wang, MG-Team LLC

Gil Brown, University of Massachusetts Lowell

Ilan Gur, Cyclotron Road

Irfan Ali, Advanced Reactor Concepts (ARC)

Jacopo Buongiorno, Massachusetts Institute of Technology (MIT)

James Lim, Xcell Biosciences

Jared Friedman, Y Combinator

Jeremy Conrad, Lemnos Labs

Jessica Lovering, Breakthrough Institute

John Jackson, Idaho National Laboratory

Lars Jorgensen, Martingale

Leslie Dewan, Transatomic Power

Linda Pouliot, Neato Robotics

Lucas Davis, UC Berkeley

Lydia L Sohn, UC Berkeley

Matthew Thompson, Tri Alpha Energy

Michael Kurzeja, Exelon Corporation

Michael Van Loy, Mintz Levin Ferris Cohn Glovsky & Popeo PC

Mike Laufer, UC Berkeley

Mike Safyan, Planet Labs

Mike Trinh, Google X

Nathan Gililand, General Fusion

Nathan Gold, UC Berkeley

Paul Lorenzini, NuScale

Per Peterson, UC Berkeley.

Peter Secor, Three Bridges Venture Partners

Philip C Hildebrandt, Idaho National Laboratory

Philip Russell, Industry Self-Awareness & Continuous Improvement Division

Rachel Slaybaugh, UC Berkeley

Raluca Scarlat, University of Wisconsin Madison

Ray Rothrock, RedSeal, Inc.

Ronald Horn, GE

Ryan Falvey, Financial Solutions Lab

Samuel Brinton, Bipartisan Policy Center

SC Moatti, Products That Count

Sebastien Lounis, Cyclotron Road

Shane Johnson, U.S. Department of Energy

Simon Irish, SWH Capital LLC

Suzy Baker, Third Way

Timothy Crook, Texas A&M University

Todd Allen, Third Way

Wendolyn Holland, Holland Consulting LLC

Walter Howes, Verdigris Capital, LLC



# THE PEOPLE WHO MAKE IT POSSIBLE

# OUR ORGANIZERS

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

## CURRENT ORGANIZERS ▼



**Todd Allen**  
University of  
Michigan - NERS



**River Bennett**  
Radiant



**Adrien Couet**  
University of  
Wisconsin-Madison



**Dinara Ermakova**  
Kairos



**Judi Greenwald**  
Nuclear Innovation  
Alliance



**Christine King**  
GAIN Gateway for Accelerated  
Innovation in Nuclear



**Andrea Morales**  
NowThen



**Holly Powell**  
GAIN Gateway for Accelerated  
Innovation in Nuclear



**Rachel Slaybaugh**  
DCVC



**Devin Watts**  
Nuclear Innovation  
Alliance



**Mya Zepp**  
Nuclear Innovation  
Alliance

## PAST ORGANIZERS ►



**Rasheed Auguste**  
UC Berkeley



**Milos Atz**  
UC Berkeley



**Dr. Rita Baranwal**  
U.S. Department of  
Energy



**Karl van Bibber**  
UC Berkeley



**Dr. Sama Bilbao y Leon**  
World Nuclear  
Association



**Dr. Alan Bolind**  
UC Berkeley



**Canon Bryan**  
Industry Liaison  
Terrestrial Energy



**Mikhaila Calice**  
University of Wisconsin -  
Madison



**Christina Castellanos**  
UC Berkeley



**Jessica Chow**  
UC Berkeley / Deep  
Isolation



**Tim Crook**  
MCR Performance  
Solutions



**Dr. Ashley Finan**  
National Reactor  
Innovation Center, INL





**Shono Fujiyama**  
Mitsubishi Research  
Institute



**Andrew Greenop**  
US Department of  
Veteran Affairs



**Sara Harmon**  
UC Berkeley



**Caroline Hughes**  
National Renewable  
Energy Laboratory



**Tim Jensen**  
University of Wisconsin -  
Madison



**Joey Kabel**  
UC Berkeley



**James Kendrick**  
UC Berkeley / Kairos  
Power



**Elsa Lemaitre-Xavier**  
ANDRA Agence nationale  
pour la gestion des déchets  
radioactifs



**Lydia Liu**  
UC Berkeley



**Hanna Loricca**  
UC Berkeley



**Michael Martin**  
UC San Francisco



**Katie Mummah**  
University of Wisconsin  
- Madison



**Mitch Negus**  
UC Berkeley



**Nnaemeka Nnamani**  
UC Berkeley



**Sara Norman**  
University of  
Michigan



**Toru Obara**  
Tokyo Institute of  
Technology



**Malisol Ohirko**  
OECD-NEA



**Christopher Poresky**  
UC Berkeley / Kairos  
Power



**Brett Rampal**  
Clean Air Task Force



**Joshua Rehak**  
UC Berkeley



**Tara Righetti**  
University of Wyoming



**Dr. Jordi Roglans-Ribas**  
Argonne National  
Laboratory



**Papa Sally**  
AXONE / TechnipFMC



**Kathy Shield**  
UC Berkeley



**Dr. Koroush Shirvan**  
Massachusetts Institute  
of Technology



**Kiyoteru Suzuki**  
Mitsubishi Research  
Institute



**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 cliché. 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 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."

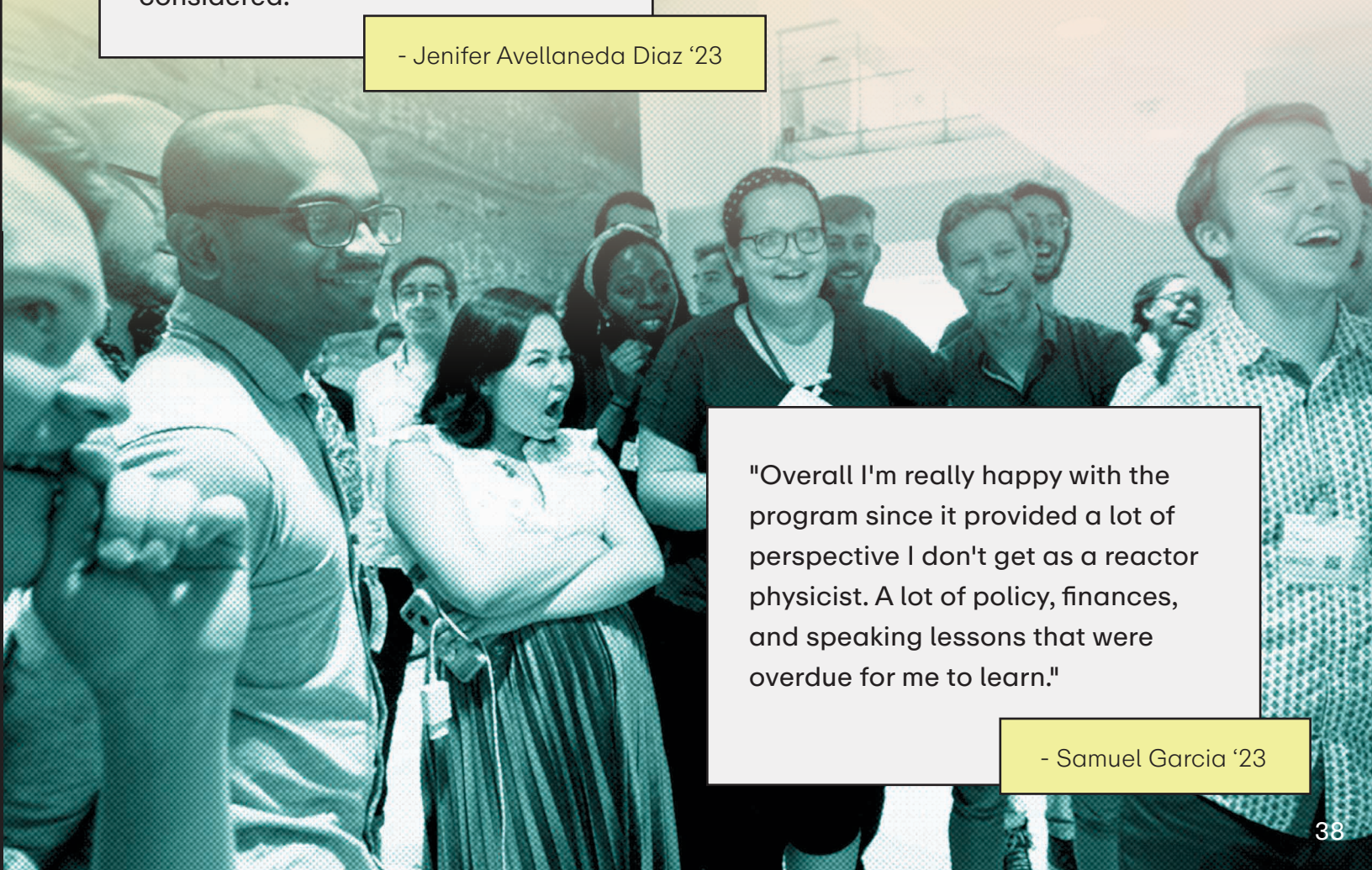
- Jenifer Avellaneda Diaz '23

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

- Aronne Travaglia '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





## TESTIMONIALS

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

- Yanuar Ady Setiawan '22

"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

"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



## CAELUS S.R.L

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





# BOOTCAMP THROUGH THE YEARS

