IMPACT REPORT

NUCLEAR INNOVATION BOOTCAMP

2016-2024

CONTENTS

INTRODUCTION

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

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

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

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

Respectfully,

The NIB Organizers

Judi Greenwald
Nuclear Innovation Alliance

Adrien Couet
University of Wisconsin-Madison

Devin Watts
Nuclear Innovation Alliance

Mya Zepp
Nuclear Innovation Alliance

Holly Powel
GAIN

Todd Allen
University of Michigan

Dinara Ermakova
Kairos

Christine King
GAIN

Rachel Slaybaugh
DCVC

River Bennett
Radiant

Andrea Morales
NowThen

OUR MISSION

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

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

Dr. Rachel Slaybaugh

& CORE VALUES

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

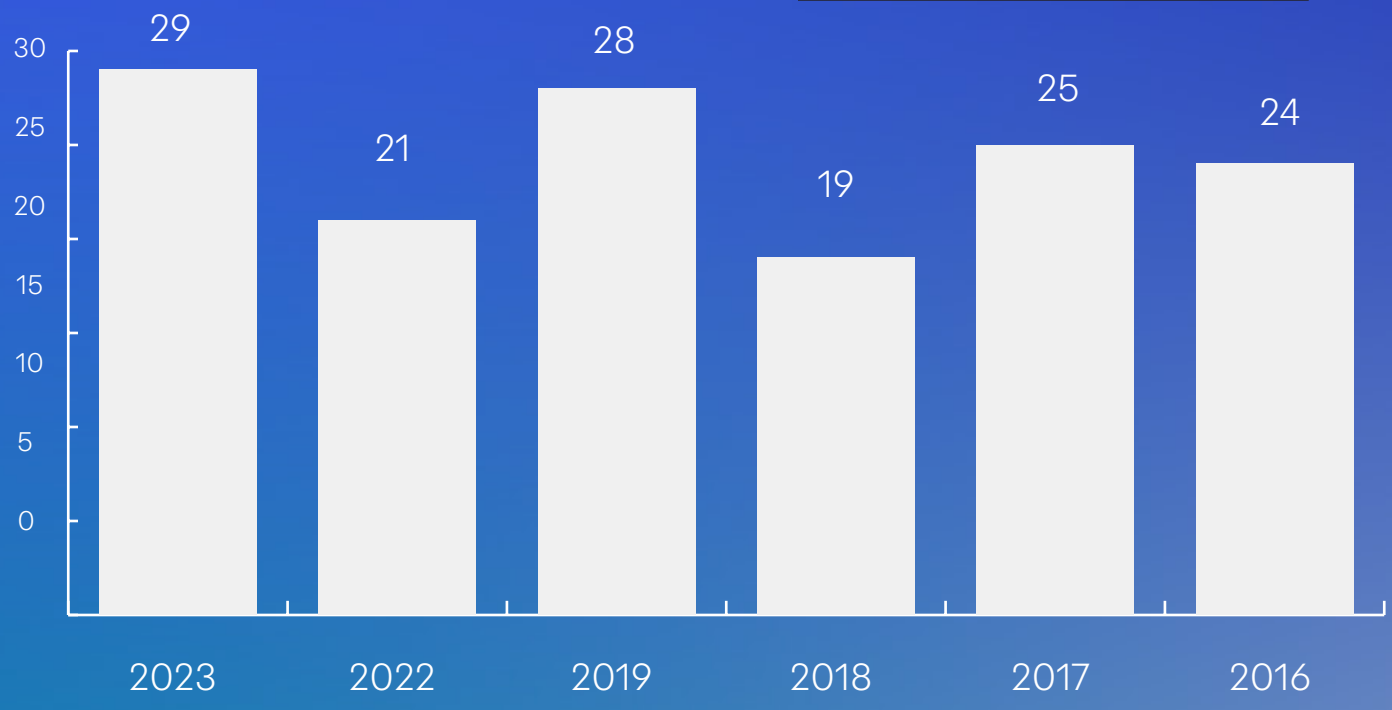
From the beginning, the Bootcamp has also been committed to removing barriers to cultivating a wide range of new and diverse ideas. To do this, NIB keeps costs very low for participants by funding lodging, meals, necessary supplies, transportation, and networking events throughout our 2-week program.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

INCREASING DIVERSITY

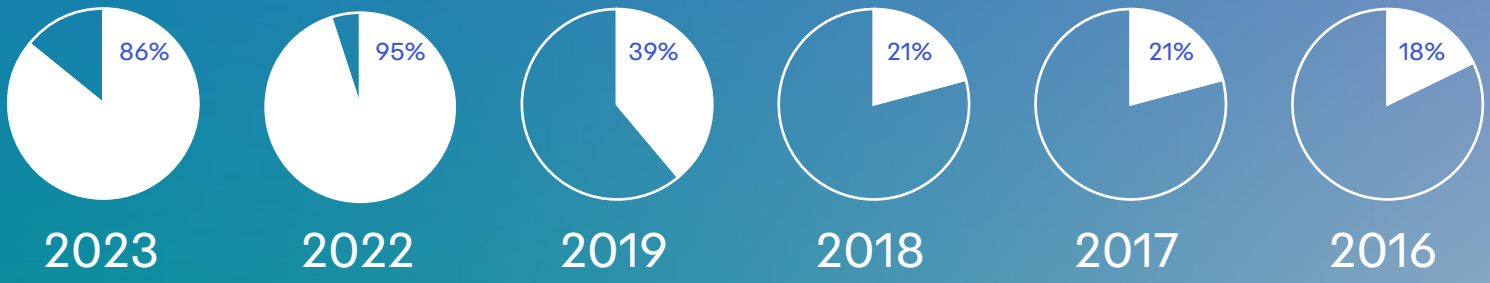
A central belief of NIB is that promoting greater diversity in the nuclear energy sector is necessary to build a dynamic, competitive, and productive future workforce. Innovation and entrepreneurialism depend on the inclusion and consideration of fresh perspectives and new ideas. The Bootcamp not only broadens the minds of participants but actively broadens the traditional reach of the nuclear energy sector's candidate pool. We aim to continue promoting diversity within NIB by striving to include a wide range of disciplines and communities in any and every way possible.

BOOTCAMP PARTICIPANTS

NIB 2023 had the most participants yet!

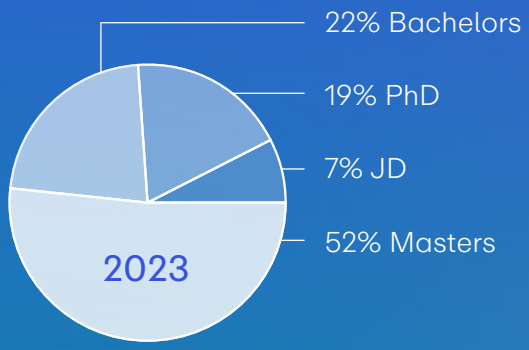


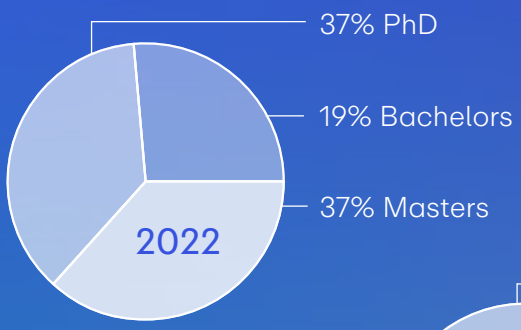
SURVEY RESPONDENTS

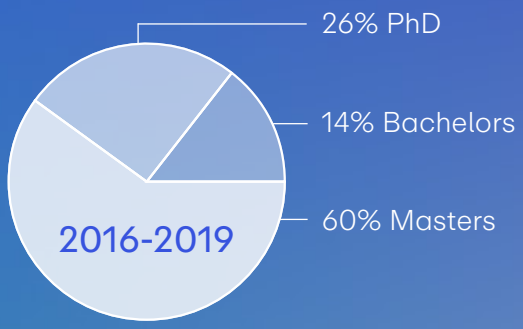


DEMOGRAPHICS

Average participant age 28



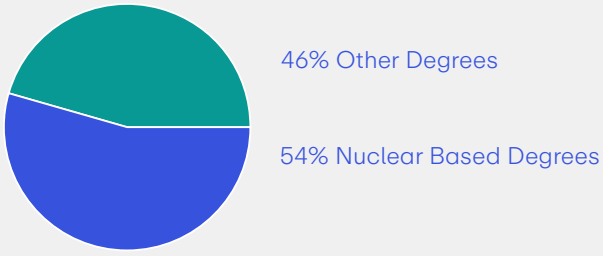


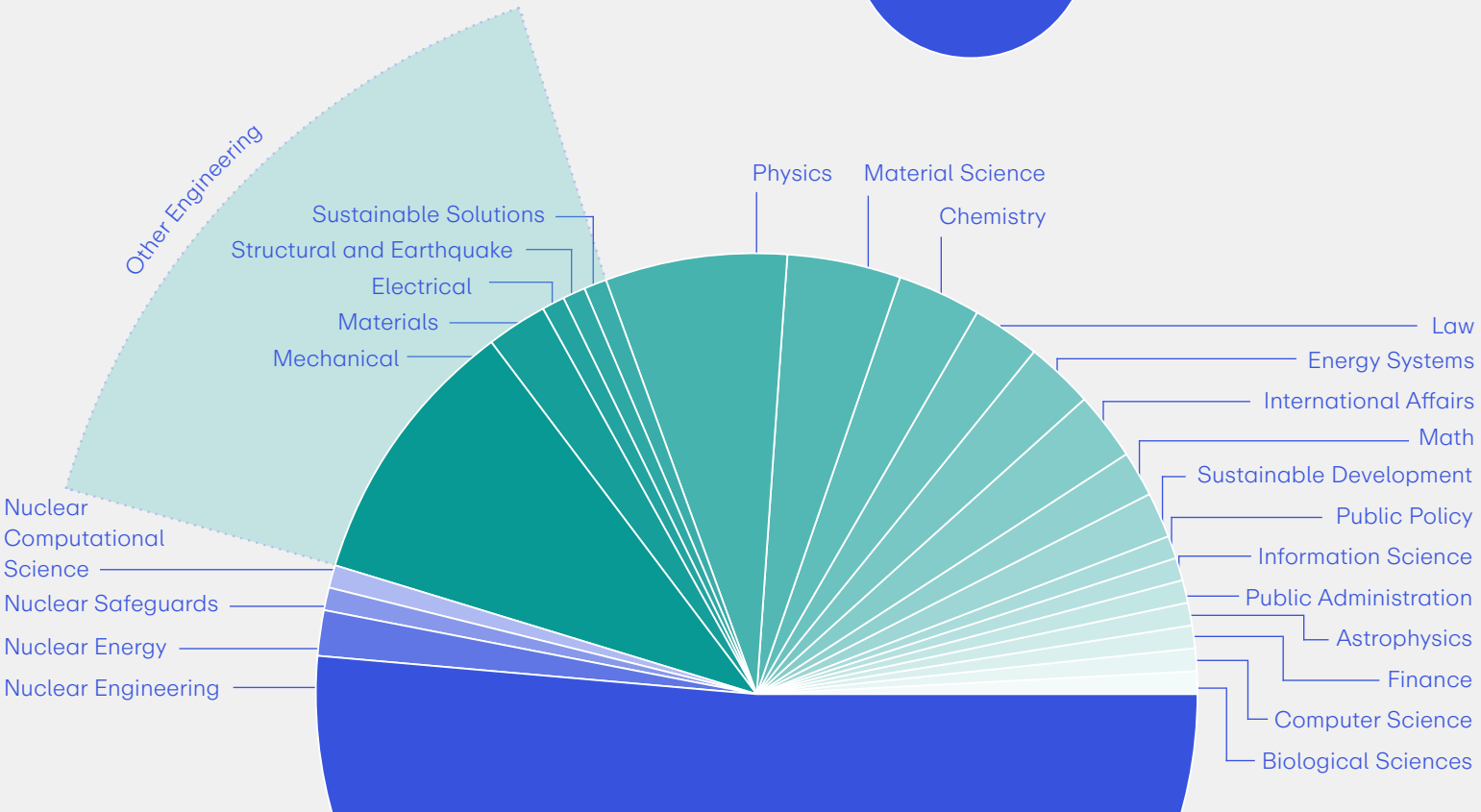


INCREASING DIVERSITY

DEGREE DISCIPLINES

The Nuclear Innovation Bootcamp accepts a wide range of individuals with different backgrounds. Applicants must demonstrate a passion for nuclear energy and as a result the majority of participants have studied nuclear energy in some way, whether through nuclear engineering, nuclear safeguards or other related fields. Of the remaining participants, a large number have studied related fields such as mechanical engineering, physics, chemistry or materials science. Those participants who did not study any STEM fields had focused on policy- related fields like law, public policy and international relations.





WHERE ARE THEY NOW?

NIB Alumni's current company and job titles!

COMPANY

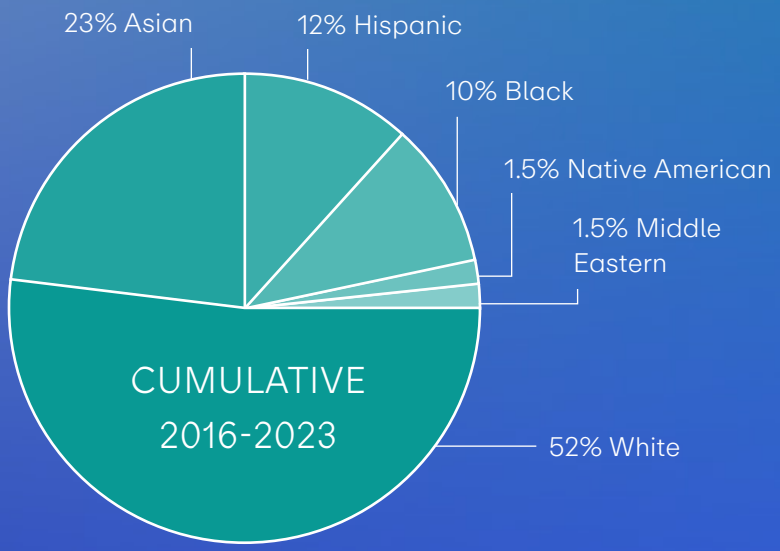
- International Atomic Energy Agency (2)
- Kairos (5)
- Breakthrough Institute (2)
- Idaho National Laboratory (3)
- Westinghouse Electric (2)
- MIT (3)
- Assystem (2)
- Caelus
- Framatome
- Radical Energy and Material
- EPRI
- Siwabessy Initiative
- Alpha Nur
- RINA
- Clearpath
- Center on Global Energy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

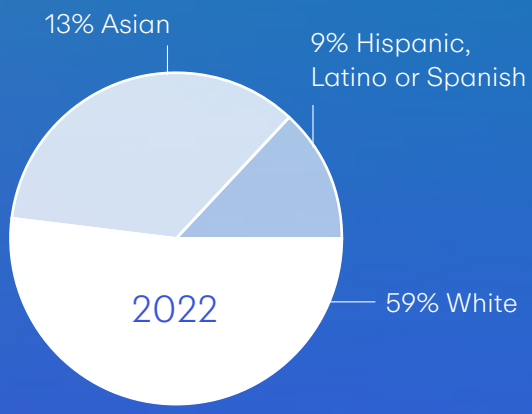
POSITION

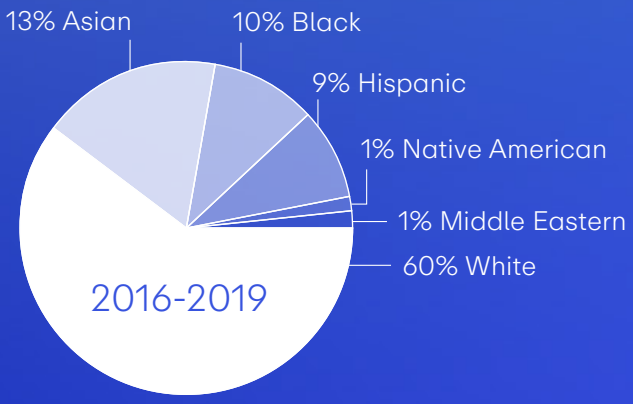
- Unemployed (12)
- Engineer (25)
- Manager (12)
- Student (16)
- Researcher (11)
- Analyst (4)
- CEO (4)
- Consultant (2)
- Policy Advisor
- Policy Analyst
- Policy research scientist
- Advanced reactor research regulator
- Neutronics methods technical lead
- Audit associate
- Policy and Communications Consultant
- Bioinformatics Scientist
- Chief Innovator
- Founder
- Project director
- Cyber security researcher
- Physics teacher
- Physicist
- Astrophysicist
- Assistance support officer
- Applications Scientist
- Performance Improvement Officer
- Sustainability consultant
- Nuclear Chemist
- Associate Coordination Officer
- Investment Manager
- Computational Scientist

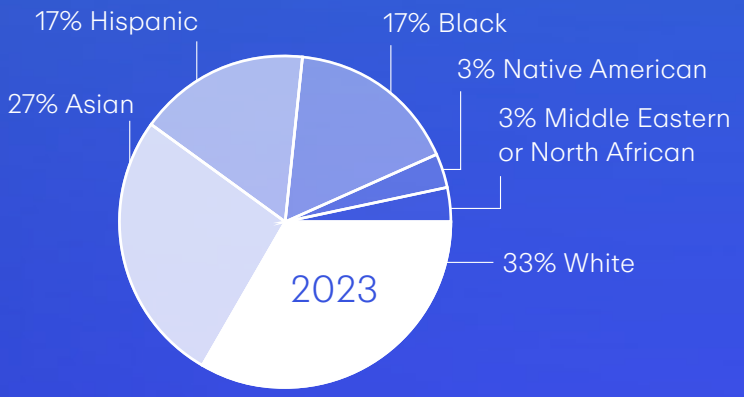
INCREASING DIVERSITY

RACE





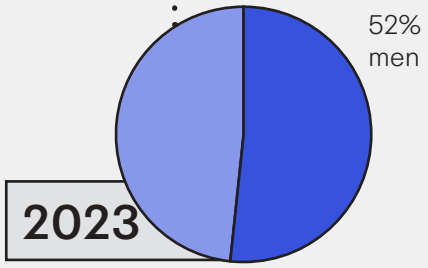


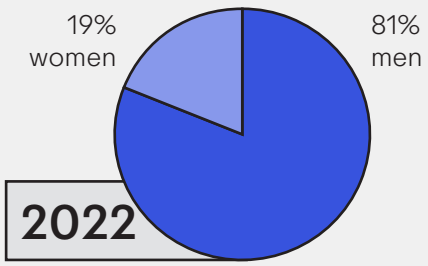


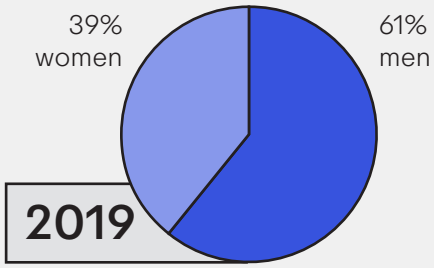
2023 had the most women of any year!

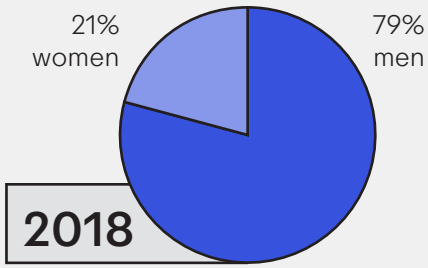
From 2022-2023 there was a 29% increase in women participants

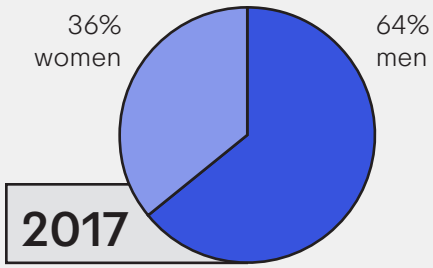
GENDER

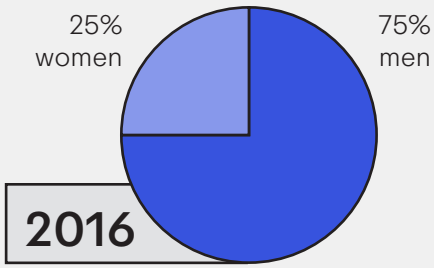












COUNTRIES

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 30 countries around the globe!

NIB 2023 had participants from 16 different countries!

OUR CROSS-CUTTING CURRICULUM

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

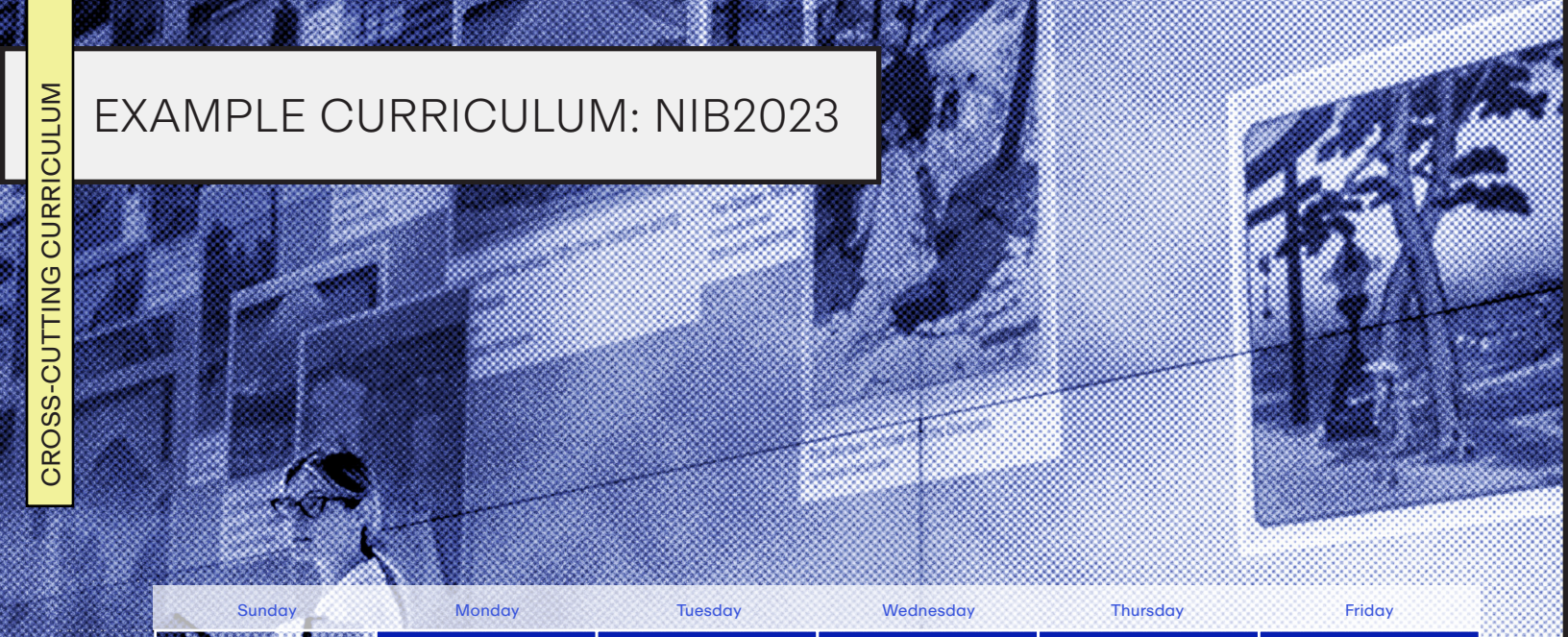
- Venture fundamentals
- Methods for idea generation and critique
- Cross-cutting needs in nuclear energy systems
- Product development and marketing
- Advanced reactor designs
- Community and stakeholder engagement
- Venture and institutional financing
- Climate change and environmental justice
- Challenges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

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

1. A selection of interdisciplinary courses delivered each day by presenters from around the world who hold distinguished roles in various sectors including industry, academia, and government

2. The team design project in which participants form groups and build their own ventures, which on the last day of the Bootcamp they pitch to a panel of expert judges.

EXAMPLE CURRICULUM: NIB2023



	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
Theme		Intros		Finance & Bizz	Field Trip	Field Trip
8:00		Breakfast	Breakfast	Breakfast		Travel to NPS by Bus
8:30		Introduction + Logistics				
9:00			Business Model & Financial Analysis	Reactor Decomissioning 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				
10:30				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			
3:00		Break				
3:30		Idea Generation pt.1	Idea generation pt. 3 Validate + groups selection			
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	Particpant Check-out
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	
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						
4:00			After Hour Social		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.

2016 - Auzel: Energy from Waste

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

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

2017 - NuWorld

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

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

2018 - Testing and Irradiation of Materials (TIM)

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

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

2019 - Glacial Melt Mitigation Services (GMMS)

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

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

2022 - Resource Adaptations Solutions (RAS)

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

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

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

2023 - Nucleus

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

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

THE PEOPLE WHO MAKE IT POSSIBLE

OUR SPONSORS

2023

BATTELLE

Morgan Lewis

CLEARPATH

TERRESTRIAL ENERGY

USV

NEI NUCLEAR ENERGY INSTITUTE

Ross Koningstein and Patrisia Spezzaferro

GCNP GENDER CHAMPIONS IN NUCLEAR POLICY

DC>C

THE ROTHROCK FAMILY

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

FASTEST PATH TO ZERO UNIVERSITY OF MICHIGAN

Ross Koningstein and Patrisia Spezzaferro

THE ROTHROCK FAMILY

NUCLEAR ENGINEERING UNIVERSITY OF CALIFORNIA, BERKELEY EST. 1958

DC>C

NUCLEAR INNOVATION ALLIANCE

2019

assystem

Virginia Commonwealth University MCV RPI 1838

SFEN

National Nuclear Laboratory

SCK·CEN

cea

Ross Koningstein and Patrisia Spezzaferro

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

TerraPower A Nuclear Innovation Company

TRANSATOMIC

TERRESTRIAL ENERGY

Southern Company

Nuclear Technology Innovation Laboratory University of California, Berkeley

THE PEOPLE WHO MAKE IT POSSIBLE

OUR PARTICIPANTS

2023: TOKYO, JAPAN

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

2018: BERKLEY, CALIFORNIA, USA

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

2017: BERKLEY, CALIFORNIA, USA

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

2016: BERKLEY, CALIFORNIA, USA

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

THE PEOPLE WHO MAKE IT POSSIBLE

OUR PRESENTERS

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

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

2023: TOKYO, JAPAN

Adrien Couet, University of Wisconsin Madison

Braden Goddard, Virginia Commonwealth University

Christine King, Gateway for Accelerated Innovation in Nuclear

Elizabeth Helvey, North Wind Services, LLC

Gen Endo, Tokyo institute of Technology

Hidemasa Yamano, Japan Atomic Energy Agency

Hideki Kamide, Japan Atomic Energy Agency

Hiroshige Kikura, Tokyo Institute of Technology

Hideharu Takahashi, Tokyo Institute of Technology

Hirofumi Okada, Tepco

Judi Greenwald, Nuclear Innovation Alliance

Kazuaki Kito, Hitachi

Kazuhito Asano, Toshiba

Ken Kahn, Old Dominion University

Kuniaki Kawabata, Japan Atomic Energy Agency

Lenka Kollar, Helixos

Leslie Dewan, Radiant Nano

Matt Thompson, Zap Energy

Michael Short, MIT

Mitsuru Uesaka, Japan Atomic Energy Commission

Naoaki Okuzum, International Research Institute for Nuclear Decommissioning

Rachel Slaybaugh, DCVC

Rudy Murgo, Nuscale

Satoshi Okada, Hitachi

Naoto Iizuka, TEPCO

Satoru Kamohara, Mitsubishi Industries

Shinichi Koyama, Japan Atomic Energy Agency

Teruki Fukumatsu, Toshiba

Thomas Rusert, Tor House Foundation

Takehiko Tsukahara, Tokyo Institute of Technology

Tatsuya 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

Ségolène 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'Energie 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

Koroush 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

Koroush 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, CALIFORNIA, 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

CURRENT 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

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 Lorica
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

Malisol Ohirko
OECD-NEA

Christopher Poresky
UC Berkeley / Kairos Power

Brett Rampal
Clean Air Task Force

Joshua Rehak
UC Berkeley

Dr. Jordi Roglans-Ribas
Argonne National

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

"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

"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

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

- Jared Hoffman '22

TESTIMONIALS

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

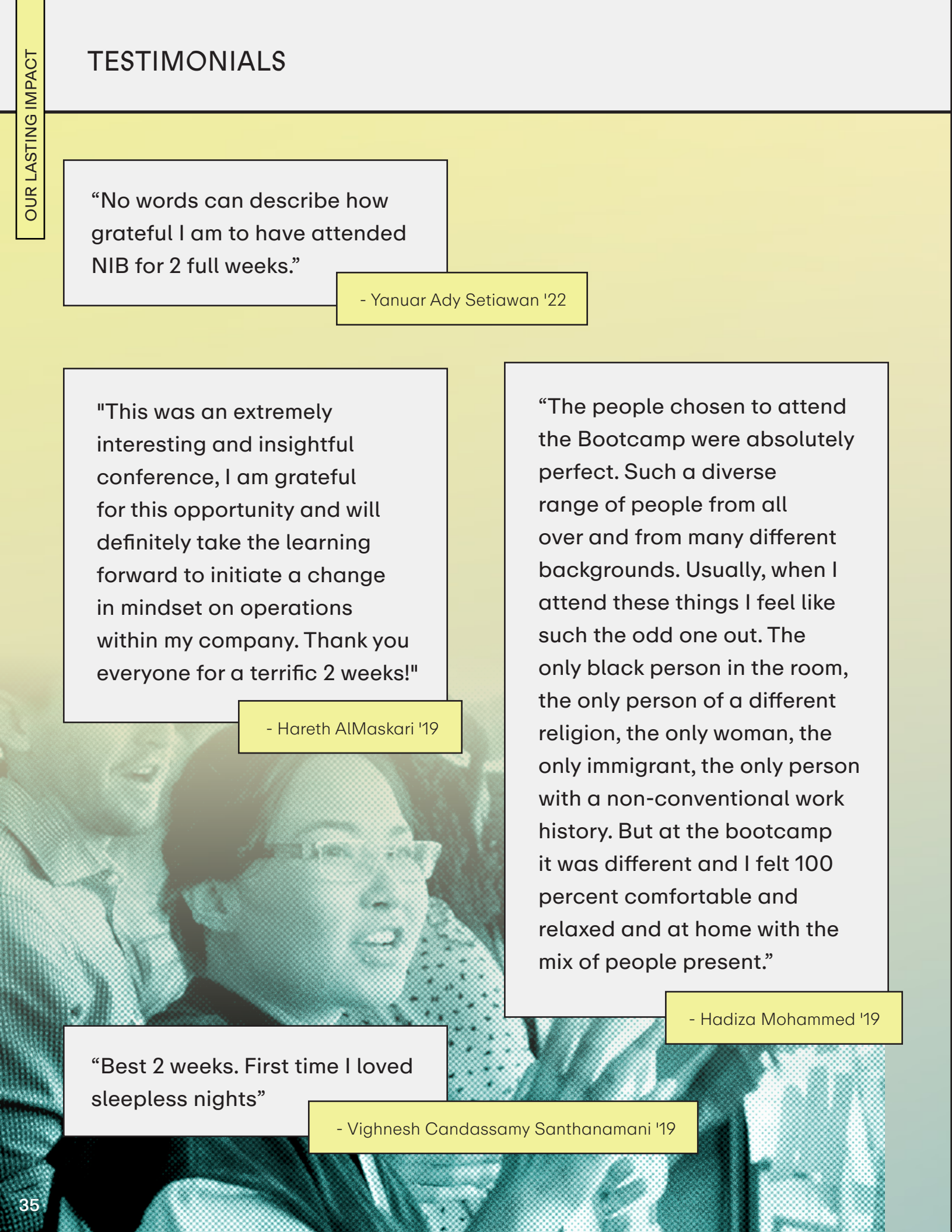
- Yanuar Ady Setiawan '22

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

- Hareth AlMaskari '19

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

- Hadiza Mohammed '19



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

- Vighnesh Candassamy Santhanamani '19

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.

BOOTCAMP THROUGH THE YEARS