



# 2026 AiBC Community Workshop

INAUGURAL COMMUNITY WORKSHOP FOR  
ARTIFICIAL INTELLIGENCE IN BIOLOGY AND CHEMISTRY (AiBC)

Monday, May 18, 2026  
Stevens Institute of Technology  
Hoboken, New Jersey



Schaefer School of  
Engineering and Science  
Department of Chemistry and  
Chemical Biology



A partnership among  
Stevens Institute of Technology · Hudson County Community College · Saint Peter's University

*This workshop is supported by the National Science Foundation IUSE:EDU Capacity Building Grant (Award No. 2518952), PwC, and philanthropic gifts from alumni and friends of the Stevens UPTAM program in honor of Professor Ajay Bose.*

## WELCOME

Welcome to the inaugural 2026 AiBC Community Workshop. We are delighted to bring together educators, researchers, biotech professionals, and edtech innovators for a day of discussion, collaboration, and shared learning.

This workshop marks the beginning of a community committed to transforming science education for the age of AI – one grounded in authentic human skills, cross-sector partnership, and a shared vision for the future of biology and chemistry education.

We look forward to a productive and inspiring day together.

### **Woo Lee, Ph.D.**

Professor and Department Chair,  
Chemistry and Chemical Biology  
Stevens Institute of Technology

### **Burl Yearwood, Ph.D.**

Dean of STEM Programs  
Hudson County Community  
College

### **WeiDong Zhu, Ph.D.**

Interim Vice President of  
Academic Affairs  
Saint Peter's University

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## AUDIO RECORDING & TRANSCRIPTION CONSENT NOTIFICATION

Please be aware that the panel and discussion sessions will be audio recorded, and AI transcription technology will be used to convert the recording into the workshop report that may be shared publicly. By continuing, you consent to both the recording and the use of AI-generated transcription for these purposes. If you do not consent to audio recording and AI transcription, please inform an event organizer.

## PHOTOGRAPHY & VIDEO CONSENT NOTIFICATION

At any time, photography or videography may be occurring on Stevens' campus. Resulting footage may include the image or likeness of event attendees. Such footage is Stevens' property and may be used for Stevens' commercial and/or noncommercial purposes. By entering, you consent and waive any claim against Stevens related to such use in any media. You are responsible for notifying the event organizer or photographer if you do not wish to be photographed or filmed.

## VENUE & PARKING

### Getting to Stevens Institute of Technology

Stevens is located at 1 Castle Point Terrace, Hoboken, NJ 07030, with the AiBC Community Workshop taking place at the Lawrence T. Babbio Jr. Center (between River St. and 6<sup>th</sup> St.). Stevens highly recommends that visitors to the campus consider the many convenient [mass transit options](#) available. Those driving should consider traveling outside of the rush hour whenever possible, and consulting real-time traffic and GPS sources, such as Google Maps, for up-to-date traffic information.

### Parking

For those driving to Stevens, complimentary parking has been made available for the day for all AiBC Community Workshop participants in the **Babbio Center Garage**, accessible via Frank Sinatra Drive. Please note, a permit is not required. If asked, please let the attendant know you are attending the AiBC Community Workshop being held in the Lawrence T. Babbio Jr. Center.

### Babbio Center

The AiBC Community Workshop is held in the Lawrence T. Babbio Jr. Center on the Stevens Campus with an entrance on River Street and an ADA accessible entrance on 6<sup>th</sup> Street. Individuals who are utilizing the complimentary parking in the Babbio Garage Center can take the elevator up to the lobby of Babbio Center.

The following spaces and rooms will be used for the duration of the Workshop:

- Babbio Center, Atrium
- Babbio Center, Room 122
- Babbio Center, Room 104
- Babbio Center, Room 203

Please refer to the Workshop Program to confirm room locations for specific panels and activities.

## CAMPUS MAP



## WI-FI ACCESS

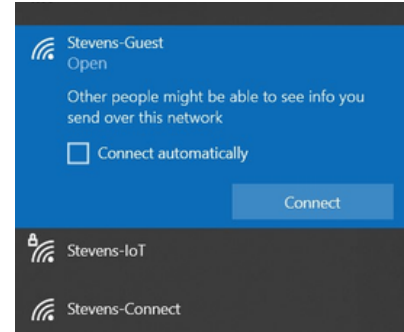
To access the Stevens Guest Wifi, please follow steps below:

**Step 1:** Select the **Stevens-Guest** Wi-Fi network from your device and select **Connect**.

**Step 2:** Open your web browser and a Secure Internet Portal should appear. Enter your First Name, Last Name, and Email address then select the **Register** button at the bottom.

**Step 3:** The Secure InternetPortal will process your request.

**Step 4:** After the "Login Successful" screen appears in your web browser, you will be connected to the Stevens-Guest Wi-Fi network.



# ABOUT AIBC COMMUNITY & WORKSHOP

## The AiBC Community

The AiBC Community — Artificial Intelligence in Biology and Chemistry — aims to propagate, scale, and sustain the transformation of science education in the age of AI. Our goals are to:

- Guide students to develop self-efficacy around scientific careers and identity.
- Cultivate AI-augmented durable skills that are authentic and essential in scientific and technical fields.
- Develop scalable experiential education resources that support these aims.

This community initiative is a partnership among Hudson County Community College (HCCC), Saint Peter's University (St. Peter's), and Stevens Institute of Technology (Stevens).

## Workshop goals

- Inform and discuss inaugural AiBC community projects.
- Co-develop scalable and sustainable experiential learning activities.
- Strengthen cross-sector connections among education, edtech, and biotech.

## Who is here today

- Professionals from biotech and Edtech industry sectors
- High school and college science educators
- University administrators
- Undergraduate and graduate students

# A STARTING LANGUAGE FOR WORKSHOP DISCUSSION

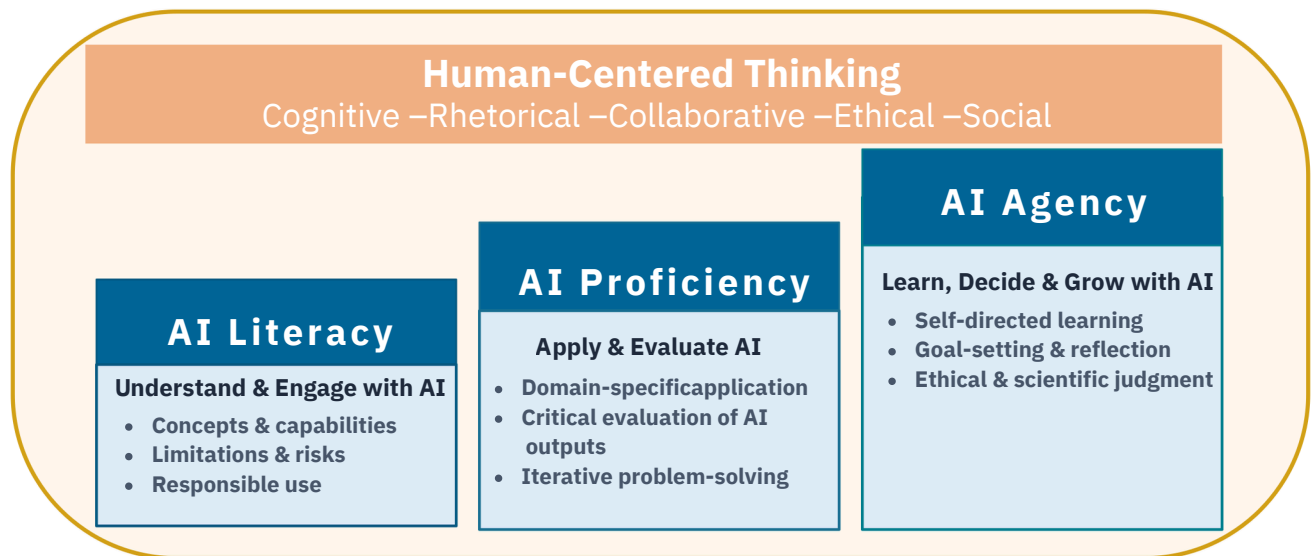
What does it mean for a student to be ready for an AI-shaped world? During the workshop, we offer three terms — *AI literacy*, *AI proficiency*, and *AI agency* — as a starting point for that conversation:

- **AI literacy** — understanding what AI is, how it works, and where it has limits
- **AI proficiency** — applying and evaluating AI tools in scientific learning and work
- **AI agency** — developing the confidence and judgment to use AI responsibly, independently, and with genuine human purpose

We offer these not as definitions to accept, but as prompts for discussion. Do these terms reflect your experience? What would you change, add, or challenge? We welcome your perspective.

The framework below is intended to help participants connect workshop discussions across classroom learning, experiential learning, career exploration, and workforce preparation.

## AI-augmented Learning & Work: Developmental Framework for STEM Student Outcomes



Sources: U.S. Department of Labor AI Literacy Framework, 2026; NSF TechAccess: AI-Ready America, 2026; OECD Learning Compass 2030; Stanford Teaching Commons AI Literacy Framework

## ABOUT THE WORKSHOP REPORT

Following this workshop, the AiBC organizing team will produce a community report documenting the day’s discussions, emerging consensus, and recommendations. The report is intended to:

- Guide AiBC leadership and advisory teams in planning future activities
- Discuss AI adoption in science education as a community
- Disseminate AiBC’s emerging ideas and practices to broader audiences

The report will prioritize discourse over description – capturing where the community agreed, where tensions emerged, and what concrete next steps were proposed. The report will be organized around four core questions:

- What does human-centered, AI-augmented learning look like in introductory science education, and how can it be adopted effectively, safely, and accessibly?
- What experiences, role models, and partnerships best help first-year science students explore career pathways, develop identity, and prepare for AI-shaped workplaces?
- What kinds of early-stage research and learning experiences can be scaled to foster durable skills, AI agency, and cross-sector engagement?
- What partnerships, shared resources, and commitments are needed to build, sustain, and grow the community over the next year?

By addressing these questions, we will shape together the shared vision of the AiBC community around this central question.

- How do we build together the community that helps students develop durable skills, AI agency, and career pathways through deeper human engagement - accessibly and affordably?

The report will be published in late June 2026 and shared with all participants and publicly.

## WORKSHOP PROGRAM

Monday, May 18, 2026 · Lawrence T. Babbio Jr. Center, Stevens Institute of Technology

9:30 am	Meet & Greet over Breakfast — Babbio Center, Atrium
10:00	<b>Welcome — Babbio Center, Room 122</b> <i>Jean Zu, Ph.D., Lore E. Feiler Dean, Schaefer School of Engineering and Science, Stevens</i>
10:05	<b>Greetings and Perspectives from the U.S. National Science Foundation</b> <i>Jeffrey M. Osborn, Ph.D., Program Director, National Science Foundation</i>
10:25	<b>Market Overview of Gen AI in Biotechnology</b> <i>Siddhartha (Sidd) Bhattacharya, MBA, Partner &amp; AI Leader, PwC</i>
10:45	<b>Panel &amp; Discussion on AI Adoption in Biotech Industry</b> <i>Moderator: Kenny Wong, Ph.D., Associate Teaching Professor, Stevens</i> <i>Andrew C. Apicello, MS, Founder &amp; CBO, Sentauroi · Stephen Cornwell, MS, Scientist, Pfizer · Hector Borges, MS, Clinical Research Associate, Merck · Scott Halpern, MS, Principal Scientist, Bristol Myers Squibb</i>
11:30	Networking Coffee — Babbio Center, Atrium
11:45	<b>Workshop Activity I — Authentic Intelligence in the Age of AI — Babbio Center, Room 122</b> <i>Christine Looser, Ph.D., Senior Director of Strategic Partnerships, Minerva Project</i>
12:30 PM	Networking Lunch — Babbio Center, Atrium
1:15	<b>AiBC Vision — Babbio Center, Room 122</b> <i>Woo Lee, Ph.D., Stevens</i>
1:30	<b>NSF Project — Career Exploration</b> <i>Patricia Muisener, Ph.D., Teaching Professor, Stevens</i>
1:45	<b>Philanthropic Project — AiBC Scholars</b> <i>Marcin Iwanicki, Ph.D., Stevens</i>
2:00	<b>Workshop Activity II — Parallel Panel &amp; Brainstorm Sessions</b> <i>Session 1: AI Adoption in STEM Education — Babbio Center, Room 122</i>

	<p><i>Moderator: Burl Yearwood, Ph.D., Dean of STEM Programs, HCCC; Sivan Albagli-Kim, Ph.D., Assistant Professor, Seton Hall University; Katheryn Detwiler, Ph.D., Teaching Assistant Professor, Stevens; Yavuz Guner, MS, Instructor, HCCC; Nina Lavlinskaia, Ph.D., Teacher, High Tech High School; Wei Li, Ph.D., Associate Director of Learning Technology, Stevens</i></p> <p><u><i>Session 2: Participant Experiences in Career Exploration – Babbio Center, Room 104</i></u>  <i>Moderator: Emily Atieh, Ph.D., Associate Director for Education Research, Stevens; Fidelis Foda- Kahouo, Assistant Professor of Mathematics, HCCC; Jeffrey Lam, Senior Academic Advisor, Stevens; Alan Grisales, Student, HCCC; Joshua Greenberg, Student, Stevens</i></p> <p><u><i>Session 3: Scalable AiBC Scholar Activities – Babbio Center, Room 203</i></u>  <i>Facilitator: Marcin Iwanicki, Ph.D., Teaching Associate Professor, Stevens; Vladimir Pavlovic, Ph.D., NSF Program Officer, Professor, Rutgers University; Kat Bay, Ph.D., Manager, Schrödinger (ZOOM); Jeffrey Dueck, Ph.D., Acting Dean, College of Arts and Sciences, Saint Peter’s University; Velino Joasil, Ph.D., Professor, HCCC; Wyman Khuu, MEd, Head of Learning Engineering, PlayLab; Peter Michael, Ph.D., Teacher, Jose Marti STEM Academy; Raul Perez-Olle, MD/Ph.D., Senior Vice President, Invax; Sarah Wojiski, Ph.D., Director, Education and External Programs, Jackson Laboratory, and New York Stem Cell Foundation</i></p>
<b>3:00</b>	<b>Networking Coffee – Babbio Center, Atrium</b>
<b>3:15</b>	<b>Reports from Parallel Sessions – Babbio Center, Room 122</b>
<b>3:45</b>	<p><b>Panel &amp; Discussion on Building Cross-Sector Collaboration</b>  <i>Moderator: Weidong Zhu, Ph.D., Interim Vice President of Academic Affairs, St. Peter’s</i></p> <p><i>John Dineen, Administrative Analyst, Hudson County Clerk’s Office; Benjamin Gill, MBA, Principal (Partner), Strategy Consulting Business Unit, PwC; Matthew LaBrake, Associate Vice President for Digital Learning, AI, and Emerging Technologies, HCCC; Rob Ott, Team Lead for AI, Digital Health, and Entrepreneurship, BioNJ; Weifeng Xu, Ph.D., Senior Scientific Director, Merck</i></p>
<b>4:30</b>	<b>Adjourn</b>

## BIOS & SESSION OVERVIEW

Bios and session descriptions are listed in program order.

### Greetings and Perspectives from the U.S. National Science Foundation · 10:05 am

#### **Jeffrey M. Osborn, Ph.D.** - Program Director, U.S. National Science Foundation

Dr. Osborn is Program Director at the U.S. National Science Foundation, serving on loan from The College of New Jersey, where he completed 18 years as Dean of the School of Science, Provost and Vice President for Academic Affairs, and is Professor of Biology.

#### **Session Overview**

Dr. Osborn will share an overview of NSF’s Improving Undergraduate STEM Education (IUSE) program, focusing on its Institutional and Community Transformation track. This track funds innovative work applying evidence-based practices that improve undergraduate STEM education and research on organizational change processes.

## Market Overview of Gen AI in Biotechnology · 10:25 am

### **Siddhartha (Sidd) Bhattacharya, MBA** - *Partner & AI Leader, PwC*

Siddhartha (Sidd) Bhattacharya, MBA, is a Partner at PricewaterhouseCoopers (PwC), where he leads Artificial Intelligence for the Pharmaceutical & Life Sciences practice and oversees technology strategy for PwC's life sciences clients. Sidd brings more than 20 years of product engineering experience, with over a decade focused on pharmaceutical, biotechnology, and medical device industries, and has built several industry-first FDA-validated AI products enabling intelligent automation in pharmaceutical R&D.

### **Session Overview**

AI is transforming life sciences, but the real impact goes beyond the hype. This session explores key trends shaping AI today, highlights high-value applications across the value chain, and offers a balanced view of the risks around reliability, governance, and responsible use. A clear, pragmatic look at where AI is delivering value today and what comes next.

## Panel: AI Adoption in Biotech Industry · 10:45 am

### **Panel Overview**

AI promises to change the landscape of drug discovery and development. This panel brings together scientists working in biopharma to discuss how AI is being incorporated into the day-to-day work of a scientist — the expectations, the realities, and how professionals can keep pace with rapidly evolving technologies.

### **Kenny Wong, Ph.D.** - *Moderator · Teaching Associate Professor, Stevens Institute of Technology*

Dr. Kenny Wong is a foodie with a deep passion for teaching and mentoring the next generation of biomedical researchers and drug hunters after decades of research experience and leading scientific teams at Merck Research Laboratories, the R&D division of Merck and Co. Inc.

### **Stephen Cornwell, MS** - *Scientist, Pfizer*

Stephen Cornwell is a Scientist at Pfizer in the Clinical Immunology & Diagnostics group within the Vaccines organization, specializing in clinical bio-functional assay development, qualification, and validation for various vaccine projects. Stephen earned his BS (2020) and MS (2021) in Chemical Biology from Stevens Institute of Technology. While on campus, he was involved in drug discovery research in the Department of Chemistry and Chemical Biology and served as the Chair of the Stevens Honor Board.

### **Hector Borges, MS** - *Clinical Research Associate, Merck*

Hector Borges is a Clinical Research Associate at Merck. In this interdisciplinary role he ensures participant safety, data reliability, and research integrity for Phase 2 & 3 adult and pediatric cardiovascular clinical trials. He previously held positions as a clinical trial coordinator and diversity program coordinator also at Merck. He grew up in Miami, FL and is a first-generation Hispanic-American graduate with an MS in Chemical Biology from Stevens Institute of Technology. This background has allowed him to apply insights from his life experiences to the mission of improving lives through intentional innovation. In addition to his routine duties, he enjoys mentoring his junior colleagues and supports their preparation for the grand world of clinical research.

### **Scott Halpern, MS** - *Principal Scientist, Machine Learning/AI & Cheminformatics, Bristol Myers Squibb*

I received my BS in Biochemistry from the University of Maryland, College Park and an MS in Organic Chemistry from the University of California, Irvine, where I worked under the supervision of Dr. Chris Vanderwal on synthetic methodology development. I joined Bristol Myers Squibb Discovery Chemistry in 2008, where I spent the next 15 years working in small molecule drug discovery across several therapeutic areas, including cardiovascular diseases and fibrosis. In 2023, I made a career transition to cheminformatics, ML and AI by joining the cheminformatics group at BMS. In my current role, I provide cheminformatics project support to accelerate small molecule drug discovery programs by building property prediction ML models and implementing generative molecular design and advanced data visualization. More recently, I have been developing agentic workflows to empower computational and medicinal chemists to accelerate their scientific output.

### **Andrew C. Apicello, MS** - *Founder & CBO, Sentauro*

Andrew Apicello is the Founder and Chief Business Officer at Sentauro, a techbio company that partners with biotech and pharmaceutical organizations to accelerate their drug discovery endeavors. Sentauro integrates machine learning into established cheminformatics and bioinformatics techniques to deliver best-in-class predictions. A seasoned startup executive and entrepreneur, Andrew has built a career at the intersection of science and business, helping life science companies translate cutting-edge technology into real-world impact.

## Workshop Activity I – Authentic Intelligence in the Age of AI · 11:45 am

### **Christine Looser, Ph.D.** - *Senior Director of Strategic Partnerships, Minerva Project*

Dr. Looser partners with universities across the globe to design large-scale educational transformation efforts focused on skills-based learning, institutional coherence, and evidence-based pedagogy.

### **Session Overview**

As the world becomes increasingly complex and generative AI becomes increasingly capable, the real question facing higher education isn't how fast we can adapt to new tools but whether we are teaching what matters most. This interactive session explores how universities can reimagine the student experience to focus on durable, transferable skills that transcend disciplines and endure even as technology reshapes our world.

## AiBC Vision · 1:15 pm

**Woo Lee, Ph.D.** - *Professor and Department Chair, Chemistry and Chemical Biology, Stevens Institute of Technology*

Dr. Woo Lee is Professor and Chair of the Department of Chemistry and Chemical Biology at Stevens, where he has spent thirty years building research programs and teaching across multiple scientific disciplines with over 130 publications and 47 grants totaling \$20M. His research focuses on reenvisioning science education to extend the human engagement that matters most, while making student learning more accessible, personalized, and affordable through the thoughtful adoption of AI.

### Session Overview

Through brief stories from students, faculty, and alumni whose trajectories were shaped by impactful human engagement, this presentation asks one question: How do we propagate and scale these irreplaceable human encounters to be more accessible and affordable for all students and learners, including ourselves, in the emerging age of AI?

## NSF Project – Career Exploration · 1:30 pm

**Patricia Muisener, Ph.D.** - *Teaching Professor, Stevens Institute of Technology*

Dr. Patricia Muisener is a Teaching Professor and Associate Chair of Undergraduate Studies in the Department of Chemistry and Chemical Biology as well as a Stevens Distinguished Teacher Mentor. She is a passionate chemistry educator who employs creative evidence-based strategies to motivate students with the goal of creating life-long learners.

### Session Overview

This session highlights an NSF-funded project (IUSE: 2518952) aimed at building an early career exploration community for undergraduate chemistry and biology students. The presentation examines data from the first semester Career Pathways course, which serves as the program's central anchor. Using social cognitive career theory (SCCT) as a guiding framework, we analyze the factors that influence students' career interests and examine how those interests and motivations evolve through engagement with course activities, external career role models, and experiences across their undergraduate careers.

## Philanthropic Project – AiBC Scholars · 1:45 pm

**Marcin Iwanicki, Ph.D.** - *Teaching Associate Professor, Stevens Institute of Technology*

Marcin is an accomplished mentor with a strong foundation in training high school, undergraduate, and graduate students in rigorous research methods, scientific reasoning, and the communication of data-driven conclusions. His experience spans science policy, cancer research, and chemical biology, reflecting a broad commitment to education through scientific rigor.

## Session Overview

The session will focus on the AiBC Scholars Program, an innovative initiative designed to introduce undergraduate students to the intersection of artificial intelligence and life sciences. The goal of the session is to present an educational approach on how to build excitement around the mission of integrating AI into life science education and highlight strengths and challenges of cross-sector partnership educational model.

## Session 1: AI Adoption in STEM Education · 2:00 pm · Babbio 122

### Session Overview

As artificial intelligence rapidly reshapes industries, its influence on STEM education is becoming impossible to ignore. This panel will explore how AI can transform the way students learn, create, and solve problems. Together, we'll examine the opportunities AI offers—from personalized learning pathways and intelligent tutoring systems to new forms of scientific inquiry and computational creativity— while also confronting the challenges around equity, ethics, and teacher readiness.

Participants will gain insight into emerging best practices, real-world classroom applications, and the evolving skill sets students need to thrive in an AI-driven world. Whether you're an educator, a student, or simply curious about the future of learning, this conversation will illuminate how AI can be thoughtfully integrated into STEM education to empower the next generation of innovators.

### **Burl Yearwood, Ph.D.** - Moderator · Dean of STEM Programs, Hudson County Community College

Dr. Burl Yearwood is the Dean of STEM at Hudson County Community College (HCCC). He oversees programs in Advanced Manufacturing, Computer Sciences, Construction Management, Engineering, Environmental Sciences, Mathematics, and the Physical Sciences. Dr. Yearwood is passionate about educating and graduating students from diverse backgrounds who are often underrepresented in higher education, particularly in STEM.

### **Sivan Albagli-Kim, Ph.D.** - Assistant Professor, Seton Hall University

Dr. Albagli-Kim is an Assistant Professor of Computer Science in the Department of Mathematics and Computer Science at Seton Hall University. She earned a Ph.D. in Computer Science, and her teaching and research interests include algorithms, data structures, graph-based models, artificial intelligence in data-driven systems and education, and NoSQL databases, with an emphasis on graph databases and semantic technologies. Her research focuses on knowledge graph representations and inference algorithms to support decision-making processes.

### **Katheryn Detwiler, Ph.D.** - Assistant Teaching Professor of Science and Technology Studies, Stevens Institute of Technology

Dr. Katheryn Detwiler is an Assistant Teaching Professor of Science and Technology Studies at Stevens Institute of Technology, where she also chairs the AI Working Group for the School of the Humanities, Arts, and Social Sciences. Her research explores how emerging data practices shape the environments, methods, and ethical entanglements of scientific knowledge production, focusing particularly on the land and environmental politics of AI technologies. She is currently leading two parallel studies of AI adoption among Stevens faculty and students.

### **Yavuz Guner, MS** - *Instructor, Hudson County Community College*

Yavuz Guner is a Cybersecurity and Computer Science instructor at Hudson County Community College, where he teaches courses in programming, ethical hacking, computer forensics, and cybersecurity. He is actively involved in developing innovative, hands-on learning experiences and leads initiatives that integrate emerging technologies such as AI into the classroom.

### **Nina Lavlinskaia, Ph.D.** - *Teacher, High Tech High School*

Dr. Nina Lavlinskaia teaches AP Biology and AP Capstone courses at Hudson County Schools of Technology, High Tech High School in Secaucus, NJ and she is adjunct professor at Fordham University for 30 years. With over 20 years of experience and a Ph.D. in Biochemistry, she integrates AI tools, virtual labs, and data-driven inquiry into her curriculum to prepare students for STEM careers. She is currently piloting an NSF-supported AI and career exploration program at her school.

### **Wei Li, Ph.D.** - *Associate Director of Learning Technology, Stevens Institute of Technology*

Dr. Wei Li is the Associate Director of Learning Technology at Stevens, where she leads the Learning Technology team within the Information Technology Division. She holds a Ph.D. in Instructional Design and Technology. Her work focuses on integrating innovative technologies to enhance teaching and learning.

## Session 2: Participant Experiences in Career Exploration · 2:00 pm · Babbio 104

### **Session Overview**

What does career exploration look like for chemistry and biology students? This mixed panel of students and academics will share their perspectives on undergraduate career exploration, particularly with respect to the Career Pathways course designed to expose first-year students to diverse career options and support them in developing their own career pathways.

### **Emily Atieh, Ph.D.** - *Moderator · Associate Director for Education Research, Stevens Institute of Technology*

Dr. Atieh is the Associate Director for Education Research at the Stevens Teaching and Learning Center, where she provides support, training, and partnership for Stevens faculty who wish to conduct educational research within their classrooms or beyond. She holds a Ph.D. in chemistry and has over a decade of experience in both teaching and conducting research on chemistry and STEM education.

### **Fidelis Foda-Kahouo, MS** - *Assistant Professor of Mathematics, Hudson County Community College*

Professor Foda-Kahouo spent more than a decade at Hudson County Community College as a student, and Security Department and Foundation Mathematics Department staffer. He has been an Instructor since 2017. Professor Foda-Kahouo believes that besides being a vocation, teaching is an art that requires creativity, patience, resilience, and a strong desire to improve and learn every day. As one of the newest full-time faculty members in the School of STEM, Professor Foda-Kahouo states that the continuous mentorship of his peers facilitates his personal and professional growth. He aims to reach higher goals for the College community and help HCCC students dream bigger and succeed academically and professionally.

### **Jeffrey Lam, MS Ed** - *Senior Academic Advisor, Instructor, Stevens Institute of Technology*

Jeffrey Lam is a Senior Academic Advisor and Staff Instructor in the Department of Chemistry and Chemical Biology at Stevens Institute of Technology. He is passionate about holistically advising students' academic plans and career aspirations while sharing his experiences as a former chemistry student himself. Jeffrey is pursuing an EdD at Johns Hopkins University School of Education and holds an MEd in Higher Education from University of Pennsylvania Graduate School of Education, where he conducted an independent study on medical school admissions and its effects on underrepresented student populations. Jeffrey applied his graduate research interests to his advising by developing a first-year seminar for chemistry and biology students to explore diverse career pathways and optimize their professional goals. Jeffrey encourages students to develop new and diverse skills to adapt to a workforce increasingly driven by emerging technologies like artificial intelligence.

### **Joshua Greenberg** - *Student Panelist, Stevens Institute of Technology – Chemical Biology Major*

Josh is a second-year Biology student interested in pursuing medicine. I have been working with Dr. Iwanicki in the AIBC lab to do transcriptomic analysis on cells treated with the forever chemical perfluorooctanesulfonic acid (PFOS). Over the summer, I will be doing research at ECU Brody School of Medicine on investigating the potential of a novel chemotherapeutic treatment for acral lentiginous melanoma (ALM).

### **Alan Grisales** - *Student Panelist, Hudson County Community College – Biology and Chemistry Major*

Alan Grisales is a student at Hudson County Community College pursuing studies in biology and chemistry with a strong interest in scientific research and real-world applications. He plans to continue his education in a STEM field and pursue a career in healthcare or research.

## Session 3: Scalable AiBC Scholar Activities · 2:00 pm · Babbio 203

### **Session Overview**

The panel will focus on developing an educational framework in which industry, nonprofit organizations, and academia actively collaborate to train students across Stevens Institute of Technology, St. Peter's University, and Hudson County Community College. Its goals are to define core competencies, build consensus on AI integration, and generate concrete pedagogical recommendations that will directly inform innovative curriculum design and national dissemination.

### **Vladimir Pavlovic, Ph.D.** - *NSF Program Officer; Professor, Rutgers University*

Dr. Vladimir Pavlovic bridges the worlds of fundamental AI research, industrial innovation, and science policy. As Professor of Computer Science at Rutgers University, he has spent two decades advancing probabilistic machine learning and multimodal AI, with publications in top venues including CVPR, ICCV, NeurIPS, and ICML. His research spans vision-language models, representation learning, and applications from human behavior understanding to computational biology. From 2018–2021, he co-led Samsung AI Center Cambridge as Principal Scientist and Director, building a 50-person team that translated cutting-edge research into commercial technologies. Currently serving as Program Director at the National Science Foundation and as Program Chair for CVPR 2026, he brings experience shaping research ecosystems at multiple scales. Vladimir has demonstrated sustained commitment to mentoring researchers, building industry-academia partnerships, and advancing responsible AI development throughout his career.

### **Kat Bay, Ph.D.** - *Manager (joining via Zoom), Schrödinger*

Dr. Kat Bay is a Manager responsible for leading the Teaching with Schrödinger program. She develops academic curricula that integrates Schrödinger's molecular modeling tools into the classroom. Prior to joining Schrödinger in 2021, she was an Assistant Professor of Organic Chemistry at the University of La Verne where she designed her course as a flipped classroom model in response to the COVID-19 pandemic. She earned her Ph.D. in Organic Chemistry from the University of California, Los Angeles, elucidating reactions using density functional theory.

### **Jeffrey Dueck, Ph.D.** - *Acting Dean, College of Arts and Sciences, Saint Peter's University*

Jeffrey Dueck, Ph.D., is Acting Dean of the College of Arts and Sciences at Saint Peter's University. With over 25 years of higher education experience as a professor of philosophy and academic administrator, Jeff enjoys teaching, research, vision-casting, strategic planning, and team development. After receiving his Ph.D. in Philosophy at SUNY-Buffalo, his research and teaching aimed to understand ethical and religious problems in terms of pragmatic and existential boundary conditions. More recently, these concerns have turned to the emergence of artificial intelligence, not only for the sake of determining guidelines for ethical usage and development, but to understand AI's underlying truth-conditions in pragmatic terms and how non-human intelligences can process information within boundaries established through human institutions.

### **Velino Joasil, Ph.D.** - *Professor, Hudson County Community College*

Dr. Velino B. Joasil is an educator, scholar, and leader dedicated to supporting student success and academic development. As a Professor of Biology at Hudson County Community College, he is known for his commitment to teaching and creating a supportive learning environment for his students. Dr. Joasil's academic journey reflects a strong commitment to both the sciences and educational leadership. He earned his Bachelor of Science in Biology from Montclair State University and went on to complete a Master of Science in Microbiology at Seton Hall University. He further expanded his expertise by earning a Medical Degree from the Medical University of the Americas, followed by a Doctorate from Capella University, where he specialized in leadership in higher education. In addition to his role at Hudson County Community College, Dr. Joasil has taught at Essex County College, Middlesex College, and Seton Hall University. Through these experiences, he has worked with diverse student populations and continues to support student achievement through his teaching and mentorship. His work reflects a broader belief in education as a tool for personal and community growth.

### **Wyman Khuu, MEd** - *Head of Learning Engineering, PlayLab*

Wyman is Head of Learning Engineering at Playlab, where he works with educators, schools, and nonprofits to create equitable access to AI tools. He believes the people who use technology should be the ones who shape it. He spent 10 years in education, including roles as Senior Director of STEM for KIPP NYC and as an award winning science teacher. He developed and scaled computational thinking curriculum and built systems for quality STEM instruction. Before education, he worked at the University of Michigan, Google, and Burson-Marsteller. Outside work, Wyman runs a youth volleyball nonprofit, explores new restaurants and cities, and enjoys photography and cycling.

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### **Peter Michael, Ph.D.** - *Teacher, Jose Marti STEM Academy*

Dr. Peter Michael is a biomedical engineer and educator with a Ph.D. in Biomedical Engineering. His doctoral research focused on neuromuscular disabilities, with an emphasis on designing technologies and therapeutic approaches to support individuals with mobility impairments, including work in gait analysis and exoskeleton development. He began his career teaching at the university level, where he led courses in robotics and mechatronics and worked closely with students on applied engineering projects. He then transitioned into industry as an R&D engineer, contributing to medical device innovation, design, and testing within FDA-regulated environments. In this role, he supported product development and compliance in a highly regulated setting, bridging engineering design with real-world clinical and manufacturing constraints. He currently teaches biomedical engineering, robotics, and engineering design in a gifted and talented high school program, and coaches a competitive FIRST Robotics Competition team. His teaching and research focus on bringing real engineering practice into the classroom while engaging students in thoughtful, ethical exploration of emerging technologies, including artificial intelligence in science, medicine, and engineering.

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### **Raul Perez-Olle, MD/Ph.D.** - *Senior Vice President, Imvax*

Dr. Perez-Olle is a physician-scientist with two decades of US and global oncology experience in pharma and biotech, working across solid tumor indications and liquid malignancies, as well as multiple therapeutic modalities, including chemotherapeutic agents, small molecules, antibodies, and cellular therapies. Experienced across the lifecycle of multiple drugs, from IND submission to approval and commercialization. Deep subject matter expertise in clinical research and development and in medical affairs. Exceptional leadership, teamwork, and communication skills, including leading multiple program and product cross-functional teams. Additional experience in regulatory affairs, drug safety and pharmacovigilance, new product planning, program and project management, joint ventures and alliance management, business development, corporate communications, and investor relations. His last position was with Imvax, Inc. as SVP and Head of Clinical Development and Medical Affairs and Program Lead for IGV-001, the company's most advanced program currently being evaluated in a Phase 2b clinical trial in newly diagnosed glioblastoma, with accountability for the cross-functional product development team. He is currently consulting with Imvax and other clients with Biodemak LLC, the pharma/biotech consulting firm he founded.

**Sarah Wojiski, Ph.D.** - *Director, Education and External Programs, Jackson Laboratory / New York Stem Cell Foundation*

Sarah Wojiski is the Director of Education and External Programs at The Jackson Laboratory for Genomic Medicine in Farmington, CT, where she oversees education and training programs for populations ranging from high school students through postdoctoral fellows. She is currently principal investigator of a National Institutes of Health funded project called “Genomics in Action”, a collaboration between JAX and CT State Community College that will bring digital learning resources on cutting edge topics in genetics and genomics into CT State science classes. She is also co-PI on the project “Teaching the Genome Generation” that provides high school teacher professional development in bioinformatics, molecular genetics lab skills, and the bioethics of genetics and genomic testing and research. Sarah received her Bachelor of Science degree in Cytogenetics from the University of Connecticut and has her Master of Education in Secondary Science Education from Boston College. She received her Doctorate in Genetics from Harvard University. Prior to joining The Jackson Laboratory, Sarah was a biology professor at Massachusetts College of Pharmacy and Health Sciences and at Southern CT State University.

### Panel: Building Cross-Sector Collaboration · 3:45 pm

#### **Panel Overview**

Artificial intelligence is transforming biotechnology, healthcare, education, and the future workforce, creating new opportunities and new challenges that no single sector can address alone. This panel brings together leaders from government, industry, consulting, and higher education to discuss how cross-sector collaboration can support career exploration, workforce development, and innovation in AI-enabled science education. The discussion will focus on building partnerships, aligning education with workforce needs, and creating scalable programs that prepare students for careers in the age of AI.

**WeiDong Zhu, Ph.D.** - *Moderator · Interim Vice President of Academic Affairs, Saint Peter's University*

Dr. WeiDong Zhu is the Interim Vice President for Academic Affairs and Professor of Physics at Saint Peter's University. He has close to two decades of experience in private higher education and in the Association of Jesuit Colleges and Universities.

**John Dineen** - *Administrative Analyst, Hudson County Clerk's Office*

John Dineen is an Administrative Analyst for the Hudson County Clerk's Office in New Jersey. He is a key figure in managing the office's modern operational framework, with responsibilities that span technical infrastructure, legal compliance, and community outreach.

**Benjamin Gill, MBA** - *Principal (Partner), Strategy Consulting, PwC*

Benjamin Gill (Stevens BS CCB Class of 1999; MIT Sloan MBA Class of 2005) is a Partner/Principal at PwC leading the Private Equity Value Creation Health Industries team within PwC's Deals practice. Ben is focused on supporting operational diligence and value creation efforts of life science organizations and is an active Stevens alumnus sitting on the CCB External Advisory Board.

**Matthew LaBrake, MS** - Associate Vice President for Digital Learning, AI, and Emerging Technologies, Hudson County Community College

Matthew LaBrake is Associate Vice President for Digital Learning, AI, and Emerging Technologies at Hudson County Community College, where he leads the Center for Online Learning and campus efforts to expand AI literacy. His work focuses on expanding access to high-quality online education and helping faculty integrate artificial intelligence into teaching and learning to prepare students for an AI-enabled workforce.

**Rob Ott, MBA** - Team Lead for AI, Digital Health, and Entrepreneurship, BioNJ

Rob Ott serves as Team Lead, AI, Digital Health, and Entrepreneurship at BioNJ, and is an executive coach and strategic advisor helping teams and leaders build AI readiness, entrepreneurial thinking, and foundational self-awareness. Prior to this, he co-founded an oncology pharma services company (CRO), scaling it from 2 to 3,500+ employees across 20 countries before exiting to start his consultancy in 2022.

**Weifeng Xu, Ph.D.** - Senior Scientific Director, Merck

Dr. Weifeng Xu is a Senior Scientific Director at Merck, heading the Scientific Strategy and Liaison team for Regulated Bioanalytics. Recognized for his expertise in bioanalysis, Dr. Xu holds two patents, has multiple impactful publications, authored the book “Bioanalytical Aspects of Biotherapeutics,” and co-leads the AAPS NAb working group. As the winner of the 2025 Bioanalysis Outstanding Contribution Award, Dr. Xu played a key role in Capvaxive’s approval and now leads bioanalytical strategies for ADCs and PDCs (antibody/peptide drug conjugates).

## WORKSHOP PARTICIPANT PROFILE & LIST

A total of 106 registrants are enrolled for the workshop as of May 2, 2026. The participant profile and registrant list in this section were generated with the assistance of Claude, an AI assistant developed by Anthropic. Registration data were deduplicated and analyzed by sector and primary interest. All content was reviewed and approved by the organizing team.

The workshop draws participants from across the AiBC partner institutions - Stevens Institute of Technology (35), Hudson County Community College (15), and Saint Peter's University (9) - together representing 55% of all registrants. The remaining 47 participants come from a range of external colleges and universities, biotech and pharmaceutical companies, government agencies, nonprofits, and industry organizations.

Faculty and instructors constitute the largest occupational group with 42 participants, reflecting the workshop's focus on science education. 11 students also registered, representing undergraduate, graduate, and community college learners.

### Participants by Sector

Sector	N
4-Year College or University	58
Community College	18

Biotech / Pharma / Life Sciences	10
Government, Nonprofit & Other	8
Industry & Consulting	8
High School	4
<b>Total</b>	<b>106</b>

Four-year colleges and universities represent the largest group (55%), followed by community colleges (17%) and biotech/pharma/life sciences (9%). High school educators, government and nonprofit representatives, and industry and consulting professionals together account for the remaining 19%.

## Participants by Primary Interest

Primary Interest	N
AI Adoption in STEM Education	52
Experiential Learning with AI	28
Career Exploration in Biotech and AI	26
<b>Total</b>	<b>106</b>

AI Adoption in STEM Education is the leading interest (49%), with Experiential Learning with AI (26%) and Career Exploration in Biotech and AI (25%) closely matched.

## Primary Interest by Sector

Sector	AI Adoption	Career Exploration	Experiential Learning	Total
4-Year College or University	29	12	17	<b>58</b>
Community College	12	4	2	<b>18</b>
Biotech / Pharma / Life Sciences	3	4	3	<b>10</b>
Government, Nonprofit & Other	0	4	4	<b>8</b>
Industry & Consulting	5	1	2	<b>8</b>
High School	3	1	0	<b>4</b>
<b>Total</b>	<b>52</b>	<b>26</b>	<b>28</b>	<b>106</b>

AI Adoption in STEM Education dominates among higher education participants. Career Exploration and Experiential Learning interests are more evenly distributed across industry, biotech, and government sectors.

## Registrant List

Listed alphabetically by last name. Title and affiliation reflect the most recent registration entry.

Last Name, First Name	Title	Affiliation
Abraham, Juliana	Senior Research Scientist	Stevens Institute of Technology
Albagli-Kim, Sivan	Assistant Professor	Seton Hall University
Andreescu, Silvana	Professor and Chair	Clarkson University

Apicello, Andrew	Founder & CBO	Sentauri
Armani, Mina	Chemistry Teacher	Jose Marti STEM Academy
Atieh, Emily	Associate Director of Education Research	Stevens Institute of Technology
Bachani, Rhea	Undergraduate Student	Stevens Institute of Technology
Bay, Katherine	Manager of Teaching with Schrödinger Program	Schrödinger
Bhattacharya, Sidd	Partner	PwC
Billapati, Santhi	Senior Lecturer	Stevens Institute of Technology
Bk, Natalia	PI	Sustainable Healthcare
Bohn, Jen	Assistant Director	RockEDU Science Outreach
Borges, Hector	Clinical Research Associate	Merck
Borges, Richard	Student	Florida International University
Brahmbhatt, Neel	Provost Fellow	Stevens Institute of Technology
Caamano, Erick	Director of Health Sciences Programs / Assistant Professor	Saint Peter's University
Callahan, Jill	Associate Professor of Biology	Saint Peter's University
Campbell, Phoenix	Student	Saint Peter's University
Cappuccino, Nicholas	CEO	PharmIRS LLC
Cherif Bachar, Ali	Student	Hudson County Community College
Chin, Cindy	Vice President for Enrollment Management	Stevens Institute of Technology
Cornwell, Stephen	Scientist	Pfizer
Dellacqua, Giorgio	Chair, Outreach	NYSCC
Detwiler, Katheryn	Assistant Teaching Professor	Stevens Institute of Technology
Dimarzio, Paola	Associate Professor	Stevens Institute of Technology
Dineen, John	Administrative Analyst	Hudson County Clerk
Du, Henry	Professor	Stevens Institute of Technology
Dueck, Jeffrey	Acting Dean, College of Arts and Sciences	Saint Peter's University
Eisenberg, Sima		
Fayyaz, Faiza	Science Laboratory Coordinator	Hudson County Community College
Fernandez, Robert	Executive Director	Cientifico Latino, Inc.
Foda Kahouo, Fidelis	Assistant Professor	Hudson County Community College

Gaughan, Sean	Adjunct Instructor	Hudson County Community College
Gill, Benjamin	Partner	PwC
Gonzalez Urbina, Luis	Associate Professor	Borough of Manhattan Community College
Guner, Yavuz	Computer Science / Cybersecurity Instructor	Hudson County Community College
Halpern, Scott	Principal Scientist, ML/AI Cheminformatics	Bristol Myers Squibb
Hamilton, David	CEO	BPX.AI
Hauari, Hanae	Associate Professor	New Jersey City University
Iwanicki, Marcin	Teaching Associate Professor	Stevens Institute of Technology
Jalo, Asiah	Adjunct Professor	Hudson County Community College
Joasil, Velino B	Professor	Hudson County Community College
Kaido, Shintaro	Staff	Stevens Institute of Technology
Kelis, Rebecca	Sr. Account Manager	Breakout Learning
Khade, Rahul	Lecturer	Stevens Institute of Technology
Khuu, Wyman	Head of Learning Engineering	Playlab
LaBrake, Matt	Associate Vice President for Digital Learning, AI, and Emerging Technologies	Hudson County Community College
Lam, Jeffrey	Senior Academic Advisor	Stevens Institute of Technology
Lavlinskaia, Nina	Educator	High Tech High School
Lee, Helen	Scientist	JHLee Consulting
Lee, Woo	Professor	Stevens Institute of Technology
Li, Clive	Associate Professor	Hudson County Community College
Li, Wei	Associate Director of Learning Technology	Stevens Institute of Technology
Looser, Christine	Senior Director	Minerva Project
Loscutoff, Leah	Head of Archives & Special Collections	Stevens Institute of Technology
Maldonado, Junior	Administrative Analyst	Hudson County
Mansidor, Andres	Director of Undergraduate Research and Fellowships	Stevens Institute of Technology
Markovinovic, Juliana	Masters Student	Stevens Institute of Technology
McKeown, Cecily	Instructional Multimedia Specialist	Hudson County Community College

McQuillan, Patrick	Director, STEM TRACS Department	Passaic County Community College
Metz, Susan	Executive Director, University Culture & Engagement	Stevens Institute of Technology
Michael, Peter	Teacher / Robotics Mentor	Jose Marti STEM Academy
Miller, Anna	Senior Manager	Global Payments
Miller, Felix	Senior Technical Advisor	Global Payments
Miller, Natalie	Student	Georgia Tech
Miller, Paulina	Student	Stevens Institute of Technology
Morris, Richard	Instructor	Hudson County Community College
Moser, Shelby	Major Gift Officer	Stevens Institute of Technology
Muisener, Patricia	Teaching Professor / Associate Chair of Undergraduate Studies	Stevens Institute of Technology
Nataraj, Raviraj	Associate Professor	Stevens Institute of Technology
Nimar, Jenna	Senior Director, Corporate and Foundation Relations	Stevens Institute of Technology
Nolan, Kathleen	Adjunct Professor (Emeritus)	St. Francis College
Osborn, Jeffrey	Program Director	U.S. National Science Foundation
Oser, Tom	Adjunct Faculty, AI in the School of Business	Saint Peter's University
Ott, Rob	Team Lead, AI, Digital Health and Entrepreneurship	BioNJ
Paliwal, Sunil	Teaching Associate Professor	Stevens Institute of Technology
Pavlovic, Vladimir	Professor / Program Director	Rutgers University / National Science Foundation
Perez-Olle, Raul	Adjunct Professor of Industry Practice	Stevens Institute of Technology
Peterson, Jeffrey	Professor	SUNY Geneseo
Previs, Stephen	Professor of Practice	NJIT
Qiu, Hongwei	Tech Fellow	Leidos Inc.
Querido, William	Assistant Professor	Stevens Institute of Technology
Rathod, Hetal	Instructor, Biology	Saint Peter's University
Renji, Naveen	Engineering Manager	Stevens Institute of Technology, College of Professional Education
Rizwan, Fatima	Student	New Jersey City University
Serra, Noelle	District Supervisor of Math and Engineering	Bergen County Technical Schools

Sharma, Abhishek	Associate Professor	Stevens Institute of Technology
Siddique, Faraz	Dean of STEM	UCNJ
Silvis, Ron	Director, TLC	Stevens Institute of Technology
Tat, Fatma	Associate Professor	Hudson County Community College
Tavasoli, Somayeh	Ph.D. Candidate	Stevens Institute of Technology
Tellez, Luz	Career and Transfer Specialist	Hudson County Community College
Townsend, Greg	AVP for Corporate, Government and Community Relations	Stevens Institute of Technology
Waite, Nathalie	Assistant Dean of Student Affairs & Director of Graduate Student Life	Stevens Institute of Technology
Wei, Yufeng	Associate Professor	New Jersey City University
Windsor, William	Adjunct	Stevens Institute of Technology
Wojiski, Sarah	Director of Education and External Programs	The Jackson Laboratory
Wong, Kenny	Teaching Associate Professor and Associate Chair of Graduate Studies	Stevens Institute of Technology
Wong-Castellano, Joycelyn	Academic Counselor	Hudson County Community College
Wydner, Karen	Assistant Professor of Biology	Saint Peter's University
Wydner, Katherine	Professor	Saint Peter's University
Xu, Weifeng	Senior Scientific Director	Merck & Co.
Yearwood, Burl	Dean of STEM	Hudson County Community College
Zhang, Yong	Professor	Stevens Institute of Technology
Zhu, Weidong	Interim VPAA	Saint Peter's University
Zu, Jean	Dean of Engineering & Science	Stevens Institute of Technology

# SPONSORS & SUPPORTERS

The AiBC community is made possible through the generous support of our sponsors and funding partners. For sponsorship inquiries, please contact Jenna Nimar, Senior Director, Corporate and Foundation Relations, Stevens Institute of Technology – [jnimar@stevens.edu](mailto:jnimar@stevens.edu).



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## CALL FOR VOLUNTEERS FOR 2027 AIBC WORKSHOP

We are beginning to shape the 2027 AiBC Workshop as a more hands-on, practical, and participatory event focused on biology and chemistry education in the age of AI.

We invite volunteer organizers to help design sessions, activities, and experiences that bring in new participants and advance the AiBC community through four themes:

- AI-ready workforce need and development
- AI-augmented classroom learning
- AI-enabled experiential learning
- Career exploration in AI age
- Scale AiBC through local communities

While rooted in biology and chemistry, we welcome multidisciplinary and curricular perspectives that connect science with ethics, business, communication, computing, human development, and society.

We are especially looking for interactive sessions, not just presentations — activities that help participants explore, test, build, adapt, or share approaches they can use in their own local context.

We welcome faculty, staff, students, alumni, industry professionals, and community partners who want to help shape a practical workshop and grow this community.

If you are interested, please let us know the theme or kind of session you would like to help organize.