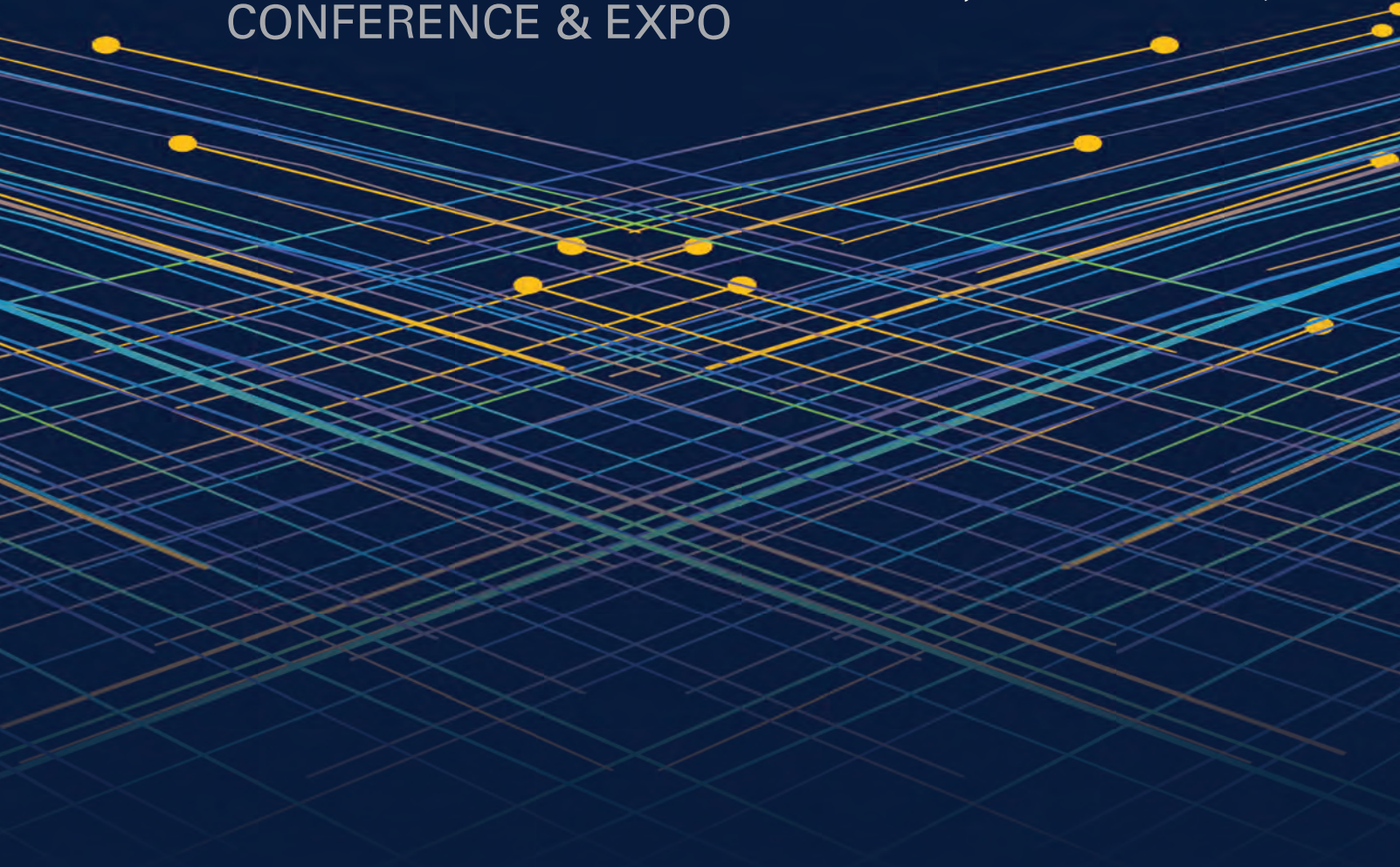




TechConnect
WORLD INNOVATION
CONFERENCE & EXPO

JUNE 19-21, 2023 | WASHINGTON, DC



Co-Located with

NANOTECH 2023
CONFERENCE & EXPO



SBIR/STTR SPRING
INNOVATION CONFERENCE

Produced by



2023 PROGRAM GUIDE

ABOUT ERVA



ERVA convenes technology thought leaders from different sectors to envision the big ideas that will propel us into the next century. Our work advances the frontiers of science and engineering in ways that will maximize societal benefit and ensure U.S. leadership in tomorrow's innovation-based economy.

How do we do it? It starts with collaborative, cross-disciplinary, convergent visioning workshops that have the flavor of science *fiction*, but are steeped in science *fact*. ERVA isn't looking for incremental solutions. The workshops leverage the collective expertise of engineers and scientists as a springboard to next-generation research. We're keenly focused on the far horizon's edge and bringing the nation's engineering research community together to envision our shared future.

OUR MISSION: To identify and develop bold and transformative new engineering research directions and to catalyze the engineering community's pursuit of innovative, high-impact research that benefits society.

Help define the future of engineering research.

ERVA solicits workshop ideas from all sectors. ERVA wants your workshop ideas!

You can nationalize technology gaps important to your organization.



Submit your workshop theme and leverage the ERVA engine to advance fundamental engineering research that benefits society.

Share your idea!



erVa

NSF Engineering Research
Visioning Alliance

Message from the Program Committees

Welcome to the 26th Anniversary of the TechConnect World Innovation Conference, co-located with the 2023 Nanotech Conference and the Spring SBIR/STTR Innovation Summit. Over the past 25 years, we have supported research, development, and transition, fostering cutting-edge technologies for science, industry, national security, and society.

TechConnect offers unique opportunities to explore a rich technical and business program in 6 different sectors. Explore the path from inspiration to commercial success, forge new partnerships, and renew friendships.

Engage with the SBIR/STTR leadership, driving over \$4 billion in annual early-stage technology investment. Make sure to stop by the TechConnect Innovation Showcase & Expo on Monday and Tuesday, where 200+ innovators pitch their ideas to industry scouts, investors, and government S&T leaders in the TechConnect Innovation Challenges. As part of our ever evolving programming to stay current with the state-of-the-art research and timely innovation topics, the 2023 program includes an expanded set of challenges on manufacturing, fusion, defense, medical and health tech & space. Additionally, on the technical program side, we are excited to bring new symposia on R&D efforts for the CHIPS act, industrial decarbonization, and materials for fusion energy.

TechConnect takes pride in the support and participation of our parent non-profit, Advanced Technology International (ATI), which manages \$50 billion in R&D funding for leading government technology development initiatives. Together, we enhance funding support and opportunities for the global science and technology community.

Thanks to all who made this meeting happen and welcome to the new program committee members. Join us next year as a symposium chair, reviewer, or organizer. Contact Sarah Wenning (wenning@techconnect.org) for details. Appreciation to sponsoring organizations and corporate partners for their contributions.

Enjoy the conference and see you at the Defense TechConnect Innovation Conference, November 27-30, 2023, and TechConnect World Innovation Conference, June 17-20, 2024, in Washington, D.C.

Sincerely, the entire TechConnect Team!

General Information

REGISTRATION & BADGE PICKUP

The Conference Registration Desk is located in the Convention Center Pre-Function.

Desk Hours:

Sunday, June 18	1:00pm - 6:00pm
Monday, June 19	7:00am - 6:00pm
Tuesday, June 20	7:00am - 6:00pm
Wednesday, June 21	8:30am - 1:00pm

EXPO HOURS

Prince George's Halls AB
Lower Level

Monday, June 19	12:00pm - 6:00pm
Tuesday, June 20	12:00pm - 6:00pm

DEMOS & DRINKS HOURS

Prince George's Halls AB
Lower Level

Monday, June 19	4:00pm - 6:00pm
Tuesday, June 20	4:00pm - 6:00pm

CONFERENCE MOBILE APP

Registered attendees have the opportunity to use the TechConnect Events mobile app. Please check your email for invitation. (Only full conference registrations will have access to use the networking/ appointment feature of the app.) You may download the TechConnect Events app from the Apple Store or Google Play. Download the TechConnect Events app, open, and then search for the 2023 TechConnect World Innovation Conference & Expo



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WIFI ACCESS

TechConnect is pleased to provide free WiFi access to all attendees. To access the wireless network:

1. Confirm that wireless is active on our device;
2. Connect to Techconnect from the list of available networks.
3. Enter the password: Innovate2023

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LOST & FOUND

Any lost items should be report to or turned over to the Registration Desk. Items are turned into Gaylord Security at the end of each day. To report or inquire about a lost item, contact the Lost & Found Office by dialing extension 54520 from any house phone. You can also reach the Lost and Found Office by dialing (301) 965-4520.

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FedEx Office Print and Ship Center provides you with an office away from the office. FedEx Office Print and Ship Center is located on the ballroom level of the hotel, between the hotel and convention center, giving you convenient access to business services located on-site. From posters, signs/banners, to copying, printing, binding, as well as packing and shipping. Hours: 6am – 9pm. The business center also offers 24-hour self-service printing and copying to accommodate any last minute changes you may have.

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PHOTOGRAPHY/ SOUND

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Thank you.



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Thank You To Our Sponsors, Partners & Supporting Orgs

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Booth 603

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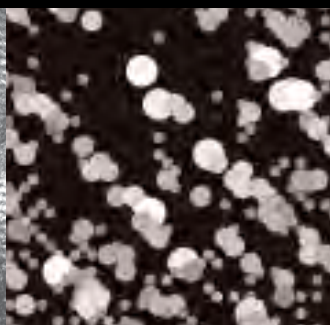
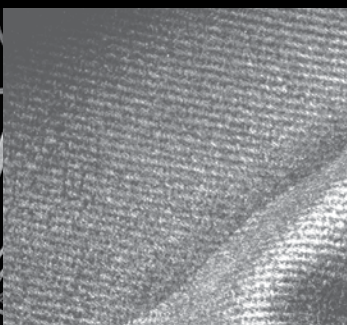
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Program | Advanced Materials

Day-At-A-Glance

Monday, June 19 (Registration: 7:00am - 6:00pm, Convention Center Pre-Function)

8:00	TechConnect World Innovation Conference - Plenary Keynotes	Maryland A
8:45	Coffee Break	Convention Center Pre-function
9:00	Challenges and Technologies in Critical Mineral Mining	National Harbor 12
9:00	SPM: Dynamic Processes at Solid-liquid Interfaces	National Harbor 4
9:00	Carbon Nanostructures & Applications	Chesapeake 1
9:00	Sustainable Polymers	National Harbor 8
9:00	Additive Manufacturing: Materials Innovation	Chesapeake 2
9:00	AI Innovations I	Chesapeake A
9:00	Energy Storage: Keynotes	National Harbor 13
9:00	Composites: Keynotes	National Harbor 5
9:00	Photonics	Chesapeake C
9:00	Novel Chemical & Physical Sensors	Chesapeake B
9:00	TechConnect Innovation Pitches: Manufacturing, Instrumentation	Maryland 2
10:30	TechConnect Innovation Pitches: Advanced Materials & Chemicals I	Maryland 2
10:40	SPM: Dynamic AFM	National Harbor 4
10:40	Energy Storage: Flow Batteries	National Harbor 13
1:30	Fusion Manufacturing Innovation Challenge - UK Atomic Energy Authority & Commonwealth Fusion Systems	Maryland 3
1:30	CHIPS: Current Challenges and New Solutions to Boost Domestic Chips Manufacturing I	Chesapeake 3
1:30	SPM: Machine Learning & Automation	National Harbor 4
1:30	Synthesis of Novel 2D materials	Chesapeake 1
1:30	Additive Manufacturing: Digital	Chesapeake 2
1:30	AI Innovations II	Chesapeake A
1:30	Thermal Energy & Storage	National Harbor 13
1:30	Bio-based Nanomaterial	Chesapeake C
1:30	Composites II	National Harbor 5
1:30	NSF Engineering Research Visioning Alliance (ERVA) - Partnering (Pre-Registration Required)	Annapolis 1
3:30	SPM User Facilities Leadership Panel	National Harbor 4
4:00	TechConnect Innovation Showcase Reception, Corporate Scout Speed Dating, Army xTech Showcase (4:00 - 6:00)	Expo Hall AB
4:00	TechConnect Business Team Meet & Greet	Expo Hall AB
4:00	TechConnect Corporate Scout Speed Dating	Expo Hall AB
4:00	Poster Session I: Graphene & Carbon Nanostructures, Polymers, Additive Manufacturing, Advanced Materials for Engineering Applications, AI Innovations, Bio-based Materials (4:00 - 6:00)	Expo Hall AB

Tuesday, June 20 (Registration: 7:00am - 6:00pm, Convention Center Pre-Function)

8:30	Joint TechConnect & SBIR/STTR Keynote Program	Maryland A
10:00	Coffee Break, <i>Sponsored by</i> 	Convention Center Pre-function
10:30	CHIPS: Current Challenges and New Solutions to Boost Domestic Chips Manufacturing II	Chesapeake 3
10:30	Functional Coatings	National Harbor 8
10:30	Rare Earths & Critical Materials - Keynotes	National Harbor 12
10:30	SPM Based Chemical Spectroscopy	National Harbor 4
10:30	Materials Innovation for Commercialization of Fusion Energy: Keynotes	National Harbor 7
10:30	2D Materials Based Devices	Chesapeake 1
10:30	Additive Manufacturing: Machines	Chesapeake 2
10:30	Emerging Battery Chemistries	National Harbor 13
10:30	Molecular Modeling	Chesapeake A
10:30	Bio-based & Bio-inspired Materials	Chesapeake 11
10:30	Quantum Information Sciences & Technologies	Chesapeake B
10:30	Nano4Earth - National Nanotechnology Coordination Office	Chesapeake C
10:30	Navy MANTECH Advanced Manufacturing Challenge	National Harbor 5
10:30	Department of Energy's (DOE) Office of Science Accelerator Research and Development and Production (ARDAP), Annual Principal (PI) Meeting: 10:30 Session 1 - Accelerators for Security and Medicine 1:00 Session 2 - NIR Laser Technologies for Scientific Research 2:00 Session 3 - MIR and LWIR Laser Technologies for Scientific Research 3:00 Session 4 - High Power Industrial Accelerator Technologies - RF Sources 3:40 Session 5 - High Power Industrial Accelerator Technologies - Linacs 4:40 Working with the DOE National Laboratories' Accelerator R&D Capabilities - information session open to all	Maryland 5
1:00	Navy MANTECH Advanced Manufacturing Challenge	National Harbor 5
1:30	CHIPS: Advanced Metrology to Ensure Success for Next Generation Semiconductors	Chesapeake 3
1:30	Membranes	National Harbor 8
1:30	REE: Advances in Solvent Separation Technologies	National Harbor 12
1:30	SPM in Biology & Medicine	National Harbor 4
1:30	Materials Innovation for Commercialization of Fusion Energy	National Harbor 7
1:30	Graphene and 2D Materials for Energy Related Applications	Chesapeake 1
1:30	Advanced Manufacturing Innovation	Chesapeake 2
1:30	Battery Innovation	National Harbor 13
1:30	Sustainability & Efficiency Innovations	Chesapeake C
1:30	AI for Materials	Chesapeake A
1:30	Innovations in Precision Health and Diagnostics for Health Wellness	Chesapeake 11
1:30	Micro & Bio Fluidics, Lab-on-a-Chip	Chesapeake B
3:00	REE: Advances in Solid-Liquid/Ion-Exchange Separation Technologies	National Harbor 12
4:00	TechConnect Innovation Showcase Reception, SBIR/STTR Program Office Meetup, Army xTech Showcase, Poster Session II (4:00 - 6:00)	Expo Hall AB
4:00	TechConnect Business Team Meet & Greet	Expo Hall AB
4:00	SBIR/STTR Pavilion	Expo Hall AB
4:00	Poster Session II: Materials Characterization, Materials for Sustainable Building, Nanoparticle Synthesis & Characterization, Rare Earths & Critical Materials, Advanced Manufacturing, Sustainability & Efficiency Innovations, AI for Materials, Fuel Cells & Hydrogen, Drug Delivery & Vaccines, Printed & Flexible Electronics (4:00 - 6:00)	Expo Hall AB
4:40	Department of Energy's (DOE) Office of Science Accelerator Research and Development and Production (ARDAP), Annual Principal (PI) Meeting: Working with the DOE National Laboratories' Accelerator R&D Capabilities - information session open to all	Maryland 5



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Program | Advanced Materials *Continued*

Wednesday, June 21 (Registration: 8:30am - 1:00pm, Convention Center Pre-Function)

8:30	Coffee Break	Convention Center Pre-function
9:00	CHIPS: Advances in Packaging for New Chips Innovation	Chesapeake 3
9:00	Materials Characterization	Chesapeake A
9:00	Materials for Sustainable Building	Chesapeake C
9:00	Nanoparticle Synthesis & Characterization	Chesapeake 11
9:00	Rare Earths and Permanent Magnets - Innovations & Challenges	National Harbor 12
9:00	SPM: Nanomechanics & Tribology	National Harbor 4
9:00	Advanced Materials for Engineering Applications	Chesapeake 2
9:00	Printed & Flexible Electronics	Chesapeake B
9:00	Recent Advances in Hydrogen	National Harbor 13
9:00	TechConnect Innovation Pitches: Manufacturing, Instrumentation II	Maryland 2
9:00	Department of Energy's (DOE) Office of Science Accelerator Research and Development and Production (ARDAP), Annual Principal (PI) Meeting: 9:00 Session 1 - Industrial Partnerships in Accelerator Technology 10:30 Session 2 - Accelerator Physics and Simulation 12:40 Session 3 - Superconducting Accelerator R&D 2:20 Session 4 - New Particle Sources and Accelerator Concepts	Maryland 5
1:30	SPM: Voltage Modulated SPM Modes	National Harbor 4

View all Keynote & Invited Speakers here:
<https://www.techconnectworld.com/World2023/bio.html>



Program | Advanced Manufacturing


Day-At-A-Glance

Monday, June 19 (Registration: 7:00am - 6:00pm, Convention Center Pre-Function)

8:00	TechConnect World Innovation Conference - Plenary Keynotes	Maryland A
8:45	Coffee Break	Convention Center Pre-function
9:00	Carbon Nanostructures & Applications	Chesapeake 1
9:00	Additive Manufacturing: Materials Innovation	Chesapeake 2
9:00	AI Innovations I	Chesapeake A
9:00	Industrial Decarbonization: Global Views	National Harbor 6
9:00	Novel Chemical & Physical Sensors	Chesapeake B
9:00	TechConnect Innovation Pitches: Space, Defense, Mobility	Maryland 1
9:00	TechConnect Innovation Pitches: Manufacturing, Instrumentation	Maryland 2
9:00	Army xTech Startup Summit (Private Meeting)	Maryland 6
10:30	TechConnect Innovation Pitches: Advanced Materials & Chemicals I	Maryland 2
10:45	TechConnect Innovation Pitches: Biotech, Pharma, Health	Maryland 1
1:30	Fusion Manufacturing Innovation Challenge - UK Atomic Energy Authority & Commonwealth Fusion Systems	Maryland 3
1:30	CHIPS: Current Challenges and New Solutions to Boost Domestic Chips Manufacturing I	Chesapeake 3
1:30	Additive Manufacturing: Digital	Chesapeake 2
1:30	AI Innovations II	Chesapeake A
1:30	Industrial Decarbonization: CCS & Hydrogen	National Harbor 6
1:30	NSF Engineering Research Visioning Alliance (ERVA) - Partnering (Pre-Registration Required)	Annapolis 1
1:30	Army xTech Startup Summit (Private Meeting)	Maryland 6
3:00	Legal Perspective: Strategic IP and Funding Considerations for Innovative Companies	Maryland 1
4:00	TechConnect Innovation Showcase Reception, Corporate Scout Speed Dating, Army xTech Showcase, Poster Session I (4:00 - 6:00)	Expo Hall AB
4:00	TechConnect Business Team Meet & Greet	Expo Hall AB
4:00	TechConnect Corporate Scout Speed Dating	Expo Hall AB
4:00	Poster Session I: Additive Manufacturing, Advanced Materials for Engineering Applications, AI Innovations, Industrial Decarbonization (4:00 - 6:00)	Expo Hall AB

View all Keynote & Invited Speakers here:
<https://www.techconnectworld.com/World2023/bio.html>

Tuesday, June 20 (Registration: 7:00am - 6:00pm, Convention Center Pre-Function)

8:30	Joint TechConnect & SBIR/STTR Keynote Program	Maryland A
10:00	Coffee Break, <i>Sponsored by</i> 	Convention Center Pre-function
10:30	CHIPS: Current Challenges and New Solutions to Boost Domestic Chips Manufacturing II	Chesapeake 3
10:30	Rare Earths & Critical Materials - Keynotes	National Harbor 12
10:30	Additive Manufacturing: Machines	Chesapeake 2
10:30	Industrial Decarbonization: Bioresources	National Harbor 6
10:30	Nano4Earth - National Nanotechnology Coordination Office	Chesapeake C
10:30	Navy MANTECH Advanced Manufacturing Challenge	National Harbor 5
10:30	TechConnect Innovation Pitches: Electronics, Sensors, Communications	Maryland 2
10:30	Department of Energy's (DOE) Office of Science Accelerator Research and Development and Production (ARDAP), Annual Principal (PI) Meeting: 10:30 Session 1 - Accelerators for Security and Medicine 1:00 Session 2 - NIR Laser Technologies for Scientific Research 2:00 Session 3 - MIR and LWIR Laser Technologies for Scientific Research 3:00 Session 4 - High Power Industrial Accelerator Technologies - RF Sources 3:40 Session 5 - High Power Industrial Accelerator Technologies - Linacs 4:40 Working with the DOE National Laboratories' Accelerator R&D Capabilities - information session open to all	Maryland 5
1:00	Navy MANTECH Advanced Manufacturing Challenge	National Harbor 5
1:30	CHIPS: Advanced Metrology to Ensure Success for Next Generation Semiconductors	Chesapeake 3
1:30	Advanced Manufacturing Innovation	Chesapeake 2
1:30	AI for Materials	Chesapeake A
1:30	TechConnect Innovation Pitches: Electronics, Sensors & Communications	Maryland 2
4:00	TechConnect Innovation Showcase Reception, SBIR/STTR Program Office Meetup, Army xTech Showcase (4:00 - 6:00)	Expo Hall AB
4:00	TechConnect Business Team Meet & Greet	Expo Hall AB
4:00	SBIR/STTR Pavilion	Expo Hall AB
4:00	Poster Session II: Materials Characterization, Nanoparticle Synthesis & Characterization, Advanced Manufacturing, Printed & Flexible Electronics (4:00 - 6:00)	Expo Hall AB
4:40	Department of Energy's (DOE) Office of Science Accelerator Research and Development and Production (ARDAP), Annual Principal (PI) Meeting: Working with the DOE National Laboratories' Accelerator R&D Capabilities - information session open to all	Maryland 5

Wednesday, June 21 (Registration: 8:30am - 1:00pm, Convention Center Pre-Function)

8:30	Coffee Break	Convention Center Pre-function
9:00	CHIPS: Advances in Packaging for New Chips Innovation	Chesapeake 3
9:00	Materials for Sustainable Building	Chesapeake C
9:00	Nanoparticle Synthesis & Characterization	Chesapeake 11
9:00	Advanced Materials for Engineering Applications	Chesapeake 2
9:00	Printed & Flexible Electronics	Chesapeake B
9:00	TechConnect Innovation Pitches: Manufacturing, Instrumentation II	Maryland 2
9:00	Department of Energy's (DOE) Office of Science Accelerator Research and Development and Production (ARDAP), Annual Principal (PI) Meeting: 9:00 Session 1 - Industrial Partnerships in Accelerator Technology 10:30 Session 2 - Accelerator Physics and Simulation 12:40 Session 3 - Superconducting Accelerator R&D 2:20 Session 4 - New Particle Sources and Accelerator Concepts	Maryland 5

Program | Energy Innovation

Day-At-A-Glance

Monday, June 19 (Registration: 7:00am - 6:00pm, Convention Center Pre-Function)

8:00	TechConnect World Innovation Conference - Plenary Keynotes	Maryland A
8:45	Coffee Break	Convention Center Pre-function
9:00	Challenges and Technologies in Critical Mineral Mining	National Harbor 12
9:00	Sustainable Polymers	National Harbor 8
9:00	AI Innovations I	Chesapeake A
9:00	Energy Storage: Keynotes	National Harbor 13
9:00	Industrial Decarbonization: Global Views	National Harbor 6
9:00	TechConnect Innovation Pitches: Space, Defense, Mobility	Maryland 1
9:00	Army xTech Startup Summit (Private Meeting)	Maryland 6
10:40	Energy Storage: Flow Batteries	National Harbor 13
1:30	Fusion Manufacturing Innovation Challenge - UK Atomic Energy Authority & Commonwealth Fusion Systems	Maryland 3
1:30	Extraction of Critical Minerals	National Harbor 12
1:30	AI Innovations II	Chesapeake A
1:30	Thermal Energy & Storage	National Harbor 13
1:30	Industrial Decarbonization: CCS & Hydrogen	National Harbor 6
1:30	TechConnect Innovation Pitches: Energy, Efficiency, Environment	Maryland 1
1:30	NSF Engineering Research Visioning Alliance (ERVA) - Partnering (Pre-Registration Required)	Annapolis 1
1:30	Army xTech Startup Summit (Private Meeting)	Maryland 6
2:40	Fusion Manufacturing Innovation Challenge - UK Atomic Energy Authority & Commonwealth Fusion Systems	Maryland 3
3:00	Legal Perspective: Strategic IP and Funding Considerations for Innovative Companies	Maryland 1
4:00	TechConnect Innovation Showcase Reception, Army xTech Showcase	Expo Hall AB
4:00	TechConnect Business Team Meet & Greet	Expo Hall AB
4:00	TechConnect Corporate Scout Speed Dating	Expo Hall AB
4:00	Poster Session I: Energy Storage, Industrial Decarbonization (4:00 - 6:00)	Expo Hall AB

View all Keynote & Invited Speakers here:
<https://www.techconnectworld.com/World2023/bio.html>

Tuesday, June 20 (Registration: 7:00am - 6:00pm, Convention Center Pre-Function)

8:30	Joint TechConnect & SBIR/STTR Keynote Program	Maryland A
10:00	Coffee Break, <i>Sponsored by</i> 	Convention Center Pre-function
10:30	Rare Earths & Critical Materials - Keynotes	National Harbor 12
10:30	Materials Innovation for Commercialization of Fusion Energy: Keynotes	National Harbor 7
10:30	Emerging Battery Chemistries	National Harbor 13
10:30	Industrial Decarbonization: Bioresources	National Harbor 6
10:30	Bio-based & Bio-inspired Materials	Chesapeake 11
10:30	Nano4Earth - National Nanotechnology Coordination Office	Chesapeake C
10:30	TechConnect Innovation Pitches: AI, Data, Cyber, Software	Maryland 1
10:30	Department of Energy's (DOE) Office of Science Accelerator Research and Development and Production (ARDAP), Annual Principal (PI) Meeting 10:30 Session 1 - Accelerators for Security and Medicine 1:00 Session 2 - NIR Laser Technologies for Scientific Research 2:00 Session 3 - MIR and LWIR Laser Technologies for Scientific Research 3:00 Session 4 - High Power Industrial Accelerator Technologies - RF Sources 3:40 Session 5 - High Power Industrial Accelerator Technologies - Linacs 4:40 Working with the DOE National Laboratories' Accelerator R&D Capabilities - information session open to all	Maryland 5
10:30	Army xTech Startup Summit (Private Meeting)	Maryland 6
1:30	REE: Advances in Solvent Separation Technologies	National Harbor 12
1:30	Materials Innovation for Commercialization of Fusion Energy,	National Harbor 7
1:30	Battery Innovation	National Harbor 13
1:30	Sustainability & Efficiency Innovations	Chesapeake C
1:30	TechConnect Innovation Pitches: Energy, Efficiency, Environmental II	Maryland 1
3:00	TechConnect Innovation Pitches: AI, Data, Cyber, Software II	Maryland 1
3:00	REE: Advances in Solid-Liquid/Ion-Exchange Separation Technologies	National Harbor 12
4:00	TechConnect Innovation Showcase Reception, SBIR/STTR Program Office Meetup, Army xTech Showcase	Expo Hall AB
4:00	TechConnect Business Team Meet & Greet	Expo Hall AB
4:00	SBIR/STTR Pavilion	Expo Hall AB
4:00	Poster Session II: Materials for Sustainable Building, Rare Earths & Critical Materials, Sustainability & Efficiency Innovations, Fuel Cells & Hydrogen, (4:00 - 6:00)	Expo Hall AB
4:40	Department of Energy's (DOE) Office of Science Accelerator Research and Development and Production (ARDAP), Annual Principal (PI) Meeting: Working with the DOE National Laboratories' Accelerator R&D Capabilities - information session open to all	Maryland 5

Wednesday, June 21 (Registration: 8:30am - 1:00pm, Convention Center Pre-Function)

8:30	Coffee Break	Convention Center Pre-function
9:00	Rare Earths and Permanent Magnets - Innovations & Challenges	National Harbor 12
9:00	Recent Advances in Hydrogen	National Harbor 13
9:00	Department of Energy's (DOE) Office of Science Accelerator Research and Development and Production ARDAP), Annual Principal (PI) Meeting: 9:00 Session 1 - Industrial Partnerships in Accelerator Technology 10:30 Session 2 - Accelerator Physics and Simulation 12:40 Session 3 - Superconducting Accelerator R&D 2:20 Session 4 - New Particle Sources and Accelerator Concepts	Maryland 5

Program | Sustainability Innovation

Day-At-A-Glance


Monday, June 19 (Registration: 7:00am - 6:00pm, Convention Center Pre-Function)

8:00	TechConnect World Innovation Conference - Plenary Keynotes	Maryland A
8:45	Coffee Break	Convention Center Pre-function
9:00	Challenges and Technologies in Critical Mineral Mining	National Harbor 12
9:00	Sustainable Polymers	National Harbor 8
9:00	AI Innovations I	Chesapeake A
9:00	Energy Storage: Keynotes	National Harbor 13
9:00	Industrial Decarbonization: Global Views	National Harbor 6
10:40	Energy Storage: Flow Batteries	National Harbor 13
1:30	Fusion Manufacturing Innovation Challenge - UK Atomic Energy Authority & Commonwealth Fusion Systems	Maryland 3
1:30	Extraction of Critical Minerals	National Harbor 12
1:30	AI Innovations II	Chesapeake A
1:30	Thermal Energy & Storage	National Harbor 13
1:30	Industrial Decarbonization: CCS & Hydrogen	National Harbor 6
1:30	Bio-based Nanomaterial	Chesapeake C
1:30	TechConnect Innovation Pitches: Energy, Efficiency, Environment	Maryland 1
1:30	NSF Engineering Research Visioning Alliance (ERVA) - Partnering (Pre-Registration Required)	Annapolis 1
4:00	TechConnect Innovation Showcase Reception, Corporate Scout Speed Dating, Army xTech Showcase (4:00 - 6:00)	Expo Hall AB
4:00	TechConnect Business Team Meet & Greet	Expo Hall AB
4:00	TechConnect Corporate Scout Speed Dating	Expo Hall AB
4:00	Poster Session I: Industrial Decarbonization, Bio-based Materials (4:00 - 6:00)	Expo Hall AB



View all Keynote & Invited Speakers here:
<https://www.techconnectworld.com/World2023/bio.html>

Tuesday, June 20 (Registration: 7:00am - 6:00pm, Convention Center Pre-Function)

8:30	Joint TechConnect & SBIR/STTR Keynote Program	Maryland A
10:00	Coffee Break, Sponsored by 	Convention Center Pre-function
10:30	Rare Earths & Critical Materials - Keynotes	National Harbor 12
10:30	Emerging Battery Chemistries	National Harbor 13
10:30	Industrial Decarbonization: Bioresources	National Harbor 6
10:30	Bio-based & Bio-inspired Materials	Chesapeake 11
10:30	Nano4Earth - National Nanotechnology Coordination Office	Chesapeake C
10:30	Department of Energy's (DOE) Office of Science Accelerator Research and Development and Production (ARDAP), Annual Principal (PI) Meeting: 10:30 Session 1 - Accelerators for Security and Medicine 1:00 Session 2 - NIR Laser Technologies for Scientific Research 2:00 Session 3 - MIR and LWIR Laser Technologies for Scientific Research 3:00 Session 4 - High Power Industrial Accelerator Technologies - RF Sources, Maryland 5 3:40 Session 5 - High Power Industrial Accelerator Technologies - Linacs, Maryland 5 4:40 Working with the DOE National Laboratories' Accelerator R&D Capabilities - information session open to all, Maryland 5	Maryland 5
1:30	Battery Innovation	National Harbor 13
1:30	Sustainability & Efficiency Innovations	Chesapeake C
1:30	TechConnect Innovation Pitches: Energy, Efficiency, Environmental II	Maryland 1
3:00	TechConnect Innovation Pitches: AI, Data, Cyber, Software II	Maryland 1
4:00	TechConnect Innovation Showcase Reception, SBIR/STTR Program Office Meetup, Army xTech Showcase (4:00 - 6:00)	Expo Hall AB
4:00	TechConnect Business Team Meet & Greet	Expo Hall AB
4:00	SBIR/STTR Pavilion	Expo Hall AB
4:00	Poster Session II: Materials for Sustainable Building, Rare Earths & Critical Materials, Sustainability & Efficiency Innovations, Fuel Cells & Hydrogen (4:00 - 6:00)	Expo Hall AB
4:40	Department of Energy's (DOE) Office of Science Accelerator Research and Development and Production (ARDAP), Annual Principal (PI) Meeting: Working with the DOE National Laboratories' Accelerator R&D Capabilities - information session open to all	Maryland 5

Wednesday, June 21 (Registration: 8:30am - 1:00pm, Convention Center Pre-Function)

8:30	Coffee Break	Convention Center Pre-function
9:00	Rare Earths and Permanent Magnets - Innovations & Challenges	National Harbor 12
9:00	Recent Advances in Hydrogen	National Harbor 13
9:00	Department of Energy's (DOE) Office of Science Accelerator Research and Development and Production (ARDAP), Annual Principal (PI) Meeting: 9:00 Session 1 - Industrial Partnerships in Accelerator Technology 10:30 Session 2 - Accelerator Physics and Simulation 12:40 Session 3 - Superconducting Accelerator R&D 2:20 Session 4 - New Particle Sources and Accelerator Concepts	Maryland 5

Day-At-A-Glance

Monday, June 19 (Registration: 7:00am - 6:00pm, Convention Center Pre-Function)

8:00	TechConnect World Innovation Conference - Plenary Keynotes	Maryland A
8:45	Coffee Break	Convention Center Pre-function
9:00	Tissue Engineering	Chesapeake 12
9:00	Army xTech Startup Summit (Private Meeting)	Maryland 6
10:30	Health Tech and Space Sprint - <i>Sponsored by Brycetek</i>	Maryland 3
10:45	TechConnect Innovation Pitches: Biotech, Pharma, Health	Maryland 1
1:30	Bio-based Nanomaterial	Chesapeake C
1:30	Medical Device Technologies	Chesapeake 12
1:30	Biosensors & Medical Applications	Chesapeake 11
1:30	NSF Engineering Research Visioning Alliance (ERVA) - Partnering (Pre-Registration Required)	Annapolis 1
1:30	Army xTech Startup Summit (Private Meeting)	Maryland 6
3:00	Legal Perspective: Strategic IP and Funding Considerations for Innovative Companies	Maryland 1
4:00	TechConnect Innovation Showcase Reception, Corporate Scout Speed Dating, Army xTech Showcase (4:00 - 6:00)	Expo Hall AB
4:00	TechConnect Business Team Meet & Greet	Expo Hall AB
4:00	TechConnect Corporate Scout Speed Dating	Expo Hall AB
4:00	Poster Session I: Bio-based Materials, Tissue Engineering, Medical Devices, Sensors & Lab-on-a-Chip (4:00 - 6:00)	Expo Hall AB



View all Keynote & Invited Speakers here:
<https://www.techconnectworld.com/World2023/bio.html>

Tuesday, June 20 (Registration: 7:00am - 6:00pm, Convention Center Pre-Function)

8:30	Joint TechConnect & SBIR/STTR Keynote Program	Maryland A
9:00	Medical & WMD Countermeasures Summit - Keynote (CWMD/MCDC Members meeting)	Maryland CD
10:00	Coffee Break, <i>Sponsored by</i> 	Convention Center Pre-function
10:30	Industrial Decarbonization: Bioresources	National Harbor 6
10:30	Bio-based & Bio-inspired Materials	Chesapeake 11
10:30	Army xTech Startup Summit (Private Meeting)	Maryland 6
11:00	Medical & WMD Countermeasures Summit - (CWMD/MCDC Members meeting)	Maryland CD
1:00	CBRN Defense Challenge - Protection (MCDC & CWMD Sponsored)	Maryland CD
1:30	SPM in Biology & Medicine	National Harbor 4
1:30	Innovations in Precision Health and Diagnostics for Health Wellness	Chesapeake 11
1:30	Micro & Bio Fluidics, Lab-on-a-Chip	Chesapeake B
2:00	CBRN Defense Challenge - Medical (MCDC & CWMD Sponsored)	Maryland CD
3:00	CBRN Defense Challenge - Medical (MCDC & CWMD Sponsored)	Maryland CD
4:00	CBRN Defense Challenge - Sensors (MCDC & CWMD Sponsored)	Maryland CD
4:00	TechConnect Innovation Showcase Reception, SBIR/STTR Program Office Meetup, Army xTech Showcase (4:00 - 6:00)	Expo Hall AB
4:00	TechConnect Business Team Meet & Greet	Expo Hall AB
4:00	SBIR/STTR Pavilion	Expo Hall AB
4:00	Poster Session II: Precision Health, Drug Delivery & Vaccines (4:00 - 6:00)	Expo Hall AB

Wednesday, June 21 (Registration: 8:30am - 1:00pm, Convention Center Pre-Function)

8:30	Coffee Break	Convention Center Pre-function
9:00	TechConnect Innovation Pitches: Biotech & Medical	Maryland 1
9:00	Medical & WMD Countermeasures Summit - (CWMD/MCDC Members meeting)	Maryland CD
10:30	TechConnect Innovation Pitches: Medical Devices & Materials	Maryland 1
1:00	Medical & WMD Countermeasures Summit - (CWMD/MCDC Members meeting)	Maryland CD

Program | Electronics & Microsystems

Day-At-A-Glance

Monday, June 19 (Registration: 7:00am - 6:00pm, Convention Center Pre-Function)

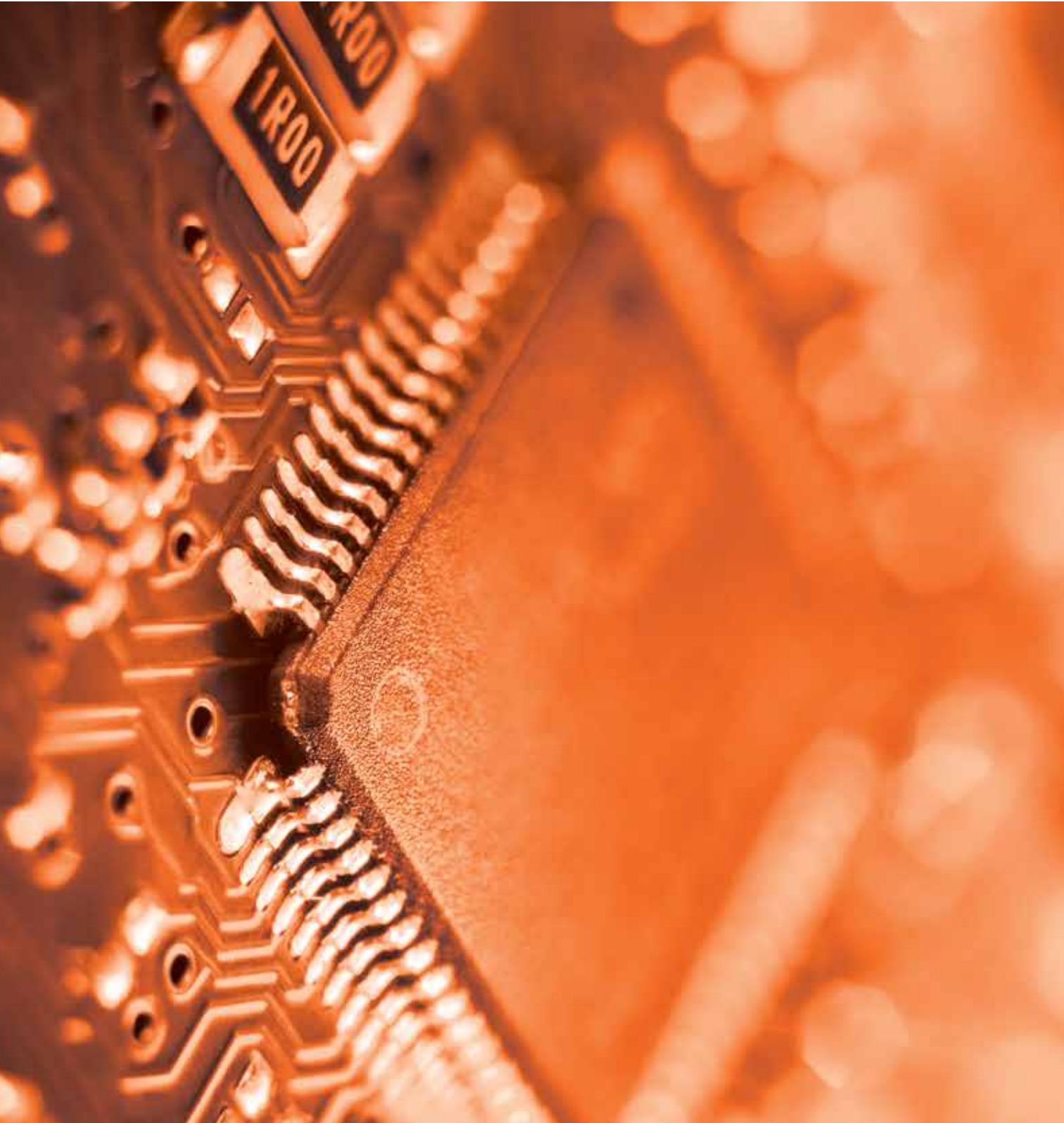
8:00	TechConnect World Innovation Conference - Plenary Keynotes	Maryland A
8:45	Coffee Break	Convention Center Pre-function
9:00	Carbon Nanostructures & Applications	Chesapeake 1
9:00	Photonics	Chesapeake C
9:00	Novel Chemical & Physical Sensors	Chesapeake B
9:00	TechConnect Innovation Pitches: Space, Defense, Mobility	Maryland 1
9:00	TechConnect Innovation Pitches: Manufacturing, Instrumentation	Maryland 2
9:00	Army xTech Startup Summit (Private Meeting)	Maryland 6
10:30	Health Tech and Space Sprint - <i>Sponsored by Brycotech</i>	Maryland 3
10:30	TechConnect Innovation Pitches: Advanced Materials & Chemicals I	Maryland 2
10:45	TechConnect Innovation Pitches: Biotech, Pharma, Health	Maryland 1
1:30	Fusion Manufacturing Innovation Challenge - UK Atomic Energy Authority & Commonwealth Fusion Systems	Maryland 3
1:30	CHIPS: Current Challenges and New Solutions to Boost Domestic Chips Manufacturing I	Chesapeake 3
1:30	Synthesis of Novel 2D materials	Chesapeake 1
1:30	Additive Manufacturing: Digital	Chesapeake 2
1:30	Biosensors & Medical Applications	Chesapeake 11
1:30	NSF Engineering Research Visioning Alliance (ERVA) - Partnering (Pre-Registration Required)	Annapolis 1
1:30	Army xTech Startup Summit (Private Meeting)	Maryland 6
2:40	Fusion Manufacturing Innovation Challenge - UK Atomic Energy Authority & Commonwealth Fusion Systems	Maryland 3
3:00	Legal Perspective: Strategic IP and Funding Considerations for Innovative Companies	Maryland 1
4:00	TechConnect Innovation Showcase Reception, Corporate Scout Speed Dating, Army xTech Showcase (4:00 - 6:00)	Expo Hall AB
4:00	TechConnect Business Team Meet & Greet	Expo Hall AB
4:00	TechConnect Corporate Scout Speed Dating	Expo Hall AB
4:00	Poster Session I: Graphene & Carbon Nanostructures, Additive Manufacturing, Advanced Materials for Engineering Applications, Sensors & Lab-on-a-Chip (4:00 - 6:00)	Expo Hall AB

View all Keynote & Invited Speakers here:
<https://www.techconnectworld.com/World2023/bio.html>

Tuesday, June 20 (Registration: 7:00am - 6:00pm, Convention Center Pre-Function)

8:30	Joint TechConnect & SBIR/STTR Keynote Program	Maryland A
9:00	Medical & WMD Countermeasures Summit - Keynote (CWMD/MCDC Members meeting)	Maryland CD
10:00	Coffee Break, <i>Sponsored by</i> 	Convention Center Pre-function
10:30	2D Materials Based Devices	Chesapeake 1
10:30	Additive Manufacturing: Machines	Chesapeake 2
10:30	Quantum Information Sciences & Technologies	Chesapeake B
10:30	Nano4Earth - National Nanotechnology Coordination Office	Chesapeake C
10:30	Navy MANTECH Advanced Manufacturing Challenge	National Harbor 5
10:30	TechConnect Innovation Pitches: Electronics, Sensors, Communications	Maryland 2
10:30	Army xTech Startup Summit (Private Meeting)	Maryland 6
11:00	Medical & WMD Countermeasures Summit - (CWMD/MCDC Members meeting)	Maryland CD
1:00	CBRN Defense Challenge - Protection (MCDC & CWMD Sponsored)	Maryland CD
1:00	Navy MANTECH Advanced Manufacturing Challenge	National Harbor 5
1:00	Department of Energy's (DOE) Office of Science Accelerator Research and Development and Production (ARDAP), Annual Principal (PI) Meeting: 1:00 Session 2 - NIR Laser Technologies for Scientific Research 2:00 Session 3 - MIR and LWIR Laser Technologies for Scientific Research 3:00 Session 4 - High Power Industrial Accelerator Technologies - RF Sources 3:40 Session 5 - High Power Industrial Accelerator Technologies - Linacs 4:40 Working with the DOE National Laboratories' Accelerator R&D Capabilities - information session open to all	Maryland 5
1:30	CHIPS: Advanced Metrology to Ensure Success for Next Generation Semiconductors	Chesapeake 3
1:30	Graphene and 2D Materials for Energy Related Applications	Chesapeake 1
1:30	Advanced Manufacturing Innovation	Chesapeake 2
1:30	Micro & Bio Fluidics, Lab-on-a-Chip	Chesapeake B
1:30	TechConnect Innovation Pitches: Electronics, Sensors & Communications	Maryland 2
2:00	CBRN Defense Challenge - Medical (MCDC & CWMD Sponsored)	Maryland CD
2:30	Navy MANTECH Advanced Manufacturing Challenge	National Harbor 5
3:00	CBRN Defense Challenge - Medical (MCDC & CWMD Sponsored)	Maryland CD
4:00	CBRN Defense Challenge - Sensors (MCDC & CWMD Sponsored)	Maryland CD
4:00	TechConnect Innovation Showcase Reception, SBIR/STTR Program Office Meetup, Army xTech Showcase (4:00 - 6:00)	Expo Hall AB
4:00	TechConnect Business Team Meet & Greet	Expo Hall AB
4:00	SBIR/STTR Pavilion	Expo Hall AB
4:00	Poster Session II: Materials Characterization, AI for Materials, Printed & Flexible Electronics (4:00 - 6:00)	Expo Hall AB
4:40	Department of Energy's (DOE) Office of Science Accelerator Research and Development and Production (ARDAP), Annual Principal (PI) Meeting: Working with the DOE National Laboratories' Accelerator R&D Capabilities - information session open to all	Maryland 5

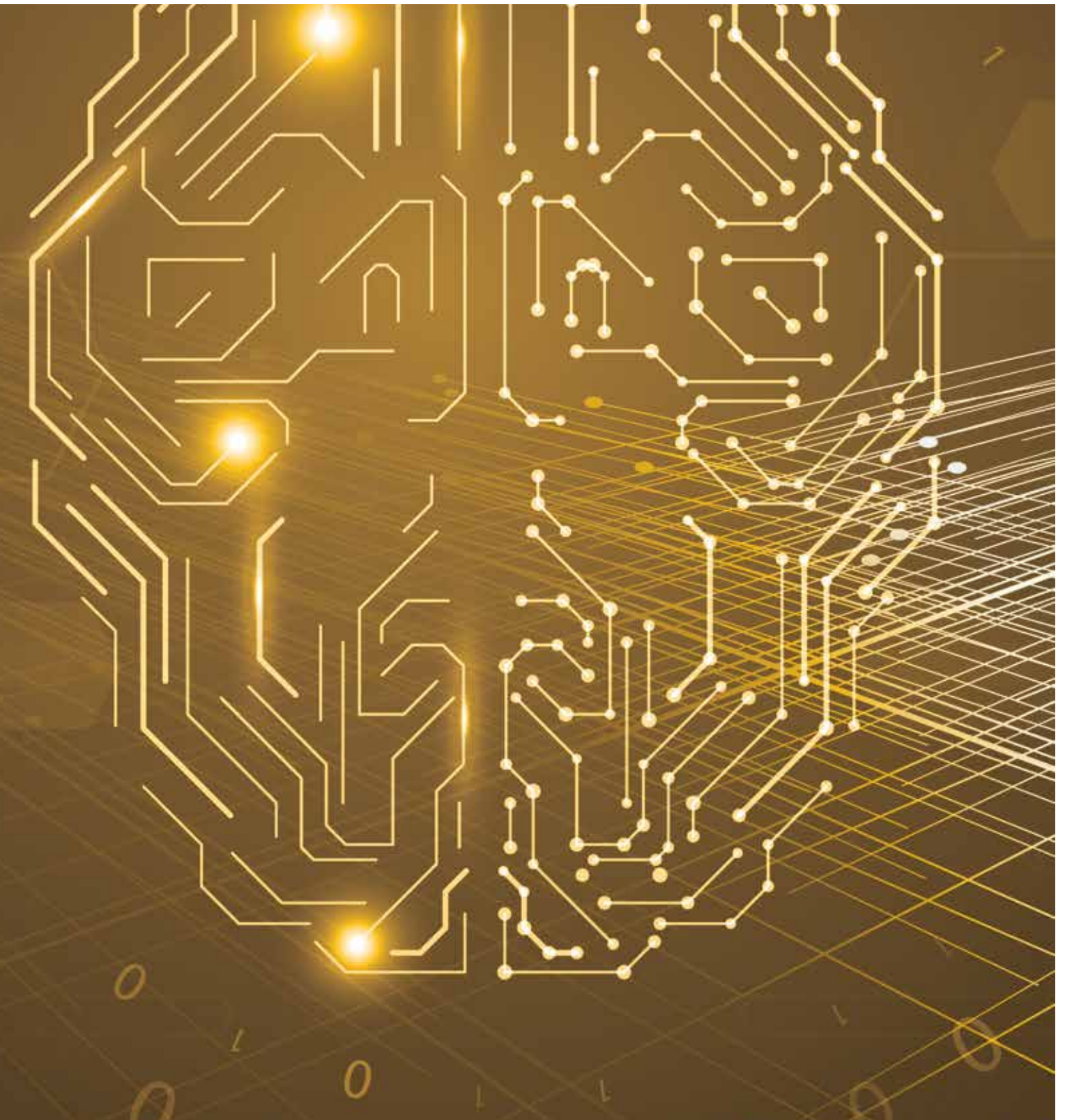
Program | Electronics & Microsystems



Wednesday, June 21 (Registration: 8:30am - 1:00pm, Convention Center Pre-Function)

8:30	Coffee Break	Convention Center Pre-function
9:00	CHIPS: Advances in Packaging for New Chips Innovation	Chesapeake 3
9:00	Advanced Materials for Engineering Applications	Chesapeake 2
9:00	Printed & Flexible Electronics	Chesapeake B
9:00	TechConnect Innovation Pitches: Biotech & Medical	Maryland 1
9:00	TechConnect Innovation Pitches: Manufacturing, Instrumentation II	Maryland 2
9:00	Department of Energy's (DOE) Office of Science Accelerator Research and Development and Production (ARDAP), Annual Principal (PI) Meeting: 9:00 Session 1 - Industrial Partnerships in Accelerator Technology 10:30 Session 2 - Accelerator Physics and Simulation 12:40 Session 3 - Superconducting Accelerator R&D 2:20 Session 4 - New Particle Sources and Accelerator Concepts	Maryland 5
9:00	Medical & WMD Countermeasures Summit - (CWMD/MCDC Members meeting)	Maryland CD
10:30	TechConnect Innovation Pitches: Medical Devices & Materials	Maryland 1
1:00	Medical & WMD Countermeasures Summit - (CWMD/MCDC Members meeting)	Maryland CD

View all Keynote & Invited Speakers here:
<https://www.techconnectworld.com/World2023/bio.html>




Day-At-A-Glance

Monday, June 19 (Registration: 7:00am - 6:00pm, Convention Center Pre-Function)

8:00	TechConnect World Innovation Conference - Plenary Keynotes	Maryland A
8:45	Coffee Break	Convention Center Pre-function
9:00	AI Innovations I	Chesapeake A
9:00	TechConnect Innovation Pitches: Space, Defense, Mobility	Maryland 1
1:30	AI Innovations II	Chesapeake A
1:30	TechConnect Innovation Pitches: Energy, Efficiency, Environment	Maryland 1
1:30	NSF Engineering Research Visioning Alliance (ERVA) - Partnering (Pre-Registration Required)	Annapolis 1
4:00	TechConnect Innovation Showcase Reception, Corporate Scout Speed Dating, Army xTech Showcase, Poster Session I (4:00 - 6:00)	Expo Hall AB
4:00	TechConnect Business Team Meet & Greet	Expo Hall AB
4:00	TechConnect Corporate Scout Speed Dating	Expo Hall AB
4:00	AI Innovations - Posters	Expo Hall AB

Tuesday, June 20 (Registration: 7:00am - 6:00pm, Convention Center Pre-Function)

8:30	Joint TechConnect & SBIR/STTR Keynote Program	Maryland A
10:00	Coffee Break, Sponsored by 	Convention Center Pre-function
10:30	Molecular Modeling	Chesapeake A
10:30	TechConnect Innovation Pitches: AI, Data, Cyber, Software	Maryland 1
1:30	AI for Materials	Chesapeake A
4:00	TechConnect Innovation Showcase Reception, SBIR/STTR Program Office Meetup, Army xTech Showcase, Poster Session II (4:00 - 6:00)	Expo Hall AB
4:00	TechConnect Business Team Meet & Greet	Expo Hall AB
4:00	SBIR/STTR Pavilion	Expo Hall AB

Wednesday, June 21 (Registration: 8:30am - 1:00pm, Convention Center Pre-Function)

8:30	Coffee Break	Convention Center Pre-function
9:00	Department of Energy's (DOE) Office of Science Accelerator Research and Development and Production (ARDAP), Annual Principal (PI) Meeting: 9:00 Session 1 - Industrial Partnerships in Accelerator Technology 10:30 Session 2 - Accelerator Physics and Simulation 12:40 Session 3 - Superconducting Accelerator R&D 2:20 Session 4 - New Particle Sources and Accelerator Concepts	Maryland 5

Program | Innovation & Business


Day-At-A-Glance

Monday, June 19 (Registration: 7:00am - 6:00pm, Convention Center Pre-Function)

8:00	TechConnect World Innovation Conference - Plenary Keynotes	Maryland A
8:00	SBIR/STTR Innovator Training Workshop (Additional Fee Required)	Maryland 4-5
8:45	Coffee Break	Convention Center Pre-function
9:00	TechConnect Innovation Pitches: Space, Defense, Mobility	Maryland 1
9:00	TechConnect Innovation Pitches: Manufacturing, Instrumentation	Maryland 2
9:00	Army xTech Startup Summit (Private Meeting)	Maryland 6
10:30	Health Tech and Space Sprint - <i>Sponsored by Brycotech</i>	Maryland 3
10:30	TechConnect Innovation Pitches: Advanced Materials & Chemicals I	Maryland 2
10:45	TechConnect Innovation Pitches: Biotech, Pharma, Health	Maryland 1
12:00	Lunch Break	On own
12:00	TechConnect Business Team Meet & Greet	Expo Hall AB
1:30	Fusion Manufacturing Innovation Challenge - UK Atomic Energy Authority & Commonwealth Fusion Systems	Maryland 3
1:30	TechConnect Innovation Pitches: Energy, Efficiency, Environment	Maryland 1
1:30	TechConnect Innovation Pitches: Advanced Materials & Chemicals II	Maryland 2
1:30	NSF Engineering Research Visioning Alliance (ERVA) - Partnering (Pre-Registration Required)	Annapolis 1
1:30	SBIR/STTR Innovator Training Workshop	Maryland 4-5
1:30	Army xTech Startup Summit (Private Meeting)	Maryland 6
3:00	Legal Perspective: Strategic IP and Funding Considerations for Innovative Companies	Maryland 1
4:00	Student Leaders Conference - Welcome	Chesapeake 10
4:00	TechConnect Innovation Showcase Reception, Corporate Scout Speed Dating, Army xTech Showcase, Poster Session I (4:00 - 6:00)	Expo Hall AB
4:00	TechConnect Business Team Meet & Greet	Expo Hall AB
4:00	TechConnect Corporate Scout Speed Dating	Expo Hall AB

View all Keynote & Invited Speakers here:
<https://www.techconnectworld.com/World2023/bio.html>

Tuesday, June 20 (Registration: 7:00am - 6:00pm, Convention Center Pre-Function)

8:30	Joint TechConnect & SBIR/STTR Keynote Program	Maryland A
9:00	Medical & WMD Countermeasures Summit - Keynote (CWMD/MCDC Members meeting)	Maryland CD
10:00	Coffee Break, <i>Sponsored by</i> 	Convention Center Pre-function
10:30	Navy MANTECH Advanced Manufacturing Challenge	National Harbor 5
10:30	TechConnect Innovation Pitches: AI, Data, Cyber, Software	Maryland 1
10:30	TechConnect Innovation Pitches: Electronics, Sensors, Communications	Maryland 2
10:30	SBIR/STTR Innovation Summit: SBIR 101	Maryland 4
10:30	Department of Energy's (DOE) Office of Science Accelerator Research and Development and Production (ARDAP), Annual Principal (PI) Meeting: 10:30 Session 1 - Accelerators for Security and Medicine 1:00 Session 2 - NIR Laser Technologies for Scientific Research 2:00 Session 3 - MIR and LWIR Laser Technologies for Scientific Research 3:00 Session 4 - High Power Industrial Accelerator Technologies - RF Sources 3:40 Session 5 - High Power Industrial Accelerator Technologies - Linacs 4:40 Working with the DOE National Laboratories' Accelerator R&D Capabilities - information session open to all	Maryland 5
10:30	Army xTech Startup Summit (Private Meeting)	Maryland 6
11:00	SBIR/STTR Innovation Summit: Reverse Pitches	Maryland 3
11:00	Medical & WMD Countermeasures Summit - (CWMD/MCDC Members meeting)	Maryland CD
12:00	Lunch Break	On own
12:00	TechConnect Business Team Meet & Greet	Expo Hall AB
1:00	Navy MANTECH Advanced Manufacturing Challenge	National Harbor 5
1:00	Student Leaders Conference - Career Pathways Panel	Chesapeake 10
1:00	SBIR/STTR Innovation Summit: Navigating Agency Differences	Maryland 3
1:00	SBIR/STTR Innovation Summit: DoD Deep Dive	Maryland 4
1:00	CBRN Defense Challenge - Protection (MCDC & CWMD Sponsored) 1:00 Protection 2:00 Medical 4:00 Sensors	Maryland CD
1:30	TechConnect Innovation Pitches: Energy, Efficiency, Environmental II	Maryland 1
1:30	TechConnect Innovation Pitches: Electronics, Sensors & Communications	Maryland 2
1:30	Army xTech Startup Summit (Private Meeting)	Maryland 6
2:00	SBIR/STTR Innovation Summit: Where Can I Get Help?	Maryland 3
2:00	SBIR/STTR Innovation Summit: NSF Deep Dive	Maryland 4
2:30	SBIR/STTR Innovation Summit: NIH Deep Dive	Maryland 4
2:30	Student Leaders Conference - FAIR data hands-on session	Chesapeake 10
3:00	TechConnect Innovation Pitches: AI, Data, Cyber, Software II	Maryland 1
3:00	Spark Notes: How the Federal Government is Catalyzing Clean Energy Innovation	Maryland 2
3:00	Success Panel: Hear about the entrepreneurial journey from SBIR/STTR recipients	Maryland 3
3:00	SBIR/STTR Innovation Summit: NASA Deep Dive	Maryland 4
3:30	SBIR/STTR Innovation Summit: DOE Deep Dive	Maryland 4
4:00	TechConnect Innovation Showcase Reception, SBIR/STTR Program Office Meetup, Army xTech Showcase, Poster Session II (4:00 - 6:00)	Expo Hall AB
4:00	TechConnect Business Team Meet & Greet	Expo Hall AB
4:00	SBIR/STTR Pavilion	Expo Hall AB
4:40	Department of Energy's (DOE) Office of Science Accelerator Research and Development and Production (ARDAP), Annual Principal (PI) Meeting: Working with the DOE National Laboratories' Accelerator R&D Capabilities - information session open to all	Maryland 5

Program | Innovation & Business

Wednesday, June 21 (Registration: 8:30am - 1:00pm, Convention Center Pre-Function)

8:30	Coffee Break	Convention Center Pre-function
9:00	TechConnect Innovation Pitches: Biotech & Medical	Maryland 1
9:00	TechConnect Innovation Pitches: Manufacturing, Instrumentation II	Maryland 2
9:00	Department of Energy's (DOE) Office of Science Accelerator Research and Development and Production (ARDAP), Annual Principal (PI) Meeting: 9:00 Session 1 - Industrial Partnerships in Accelerator Technology 10:30 Session 2 - Accelerator Physics and Simulation 12:40 Session 3 - Superconducting Accelerator R&D 2:20 Session 4 - New Particle Sources and Accelerator Concepts	Maryland 5
9:00	Army xTech Startup Summit (Private Meeting)	Maryland 6
9:00	DOE Federal Laboratory TTO Senior Manager Meeting (Private Meeting)	Chesapeake 1
9:00	SBIR/STTR Innovation Summit: Inside the Head of an Evaluator	Maryland 3
9:00	SBIR/STTR Innovation Summit: Working with DoD Primes	Maryland 4
9:00	Medical & WMD Countermeasures Summit - (CWMD/MCDC Members meeting)	Maryland CD
10:00	SBIR/STTR Innovation Summit: Executing My Award	Maryland 3
10:00	SBIR/STTR Innovation Summit: Cybersecurity Resources for Small Business Research	Maryland 4
10:00	Student Leaders Conference - Coffee with Mike Kiley: Informal Entrepreneurship Q&A	Lobby
10:30	TechConnect Innovation Pitches: Medical Devices & Materials	Maryland 1
11:00	SBIR/STTR Innovation Summit: Spotlight - Climate Topics	Maryland 3
11:00	SBIR/STTR Innovation Summit: Phase III	Maryland 4
12:00	Lunch Break	On own
1:00	Lockheed Partner Meeting (Private Meeting)	Chesapeake 3
1:00	Medical & WMD Countermeasures Summit - (CWMD/MCDC Members meeting)	Maryland CD
1:00	SBIR/STTR ESO Meeting (Private Meeting)	Chesapeake 10
1:30	DOE Federal Laboratory TTO Senior Manager Meeting (Private Meeting)	Chesapeake 1

View all Keynote & Invited Speakers here:
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SBIR/STTR SPRING INNOVATION CONFERENCE

Day-At-A-Glance

Monday, June 19 (Registration: 7:00am - 6:00pm, Convention Center Pre-Function)

8:00	TechConnect World Innovation Conference - Plenary Keynotes	Maryland A
8:00	SBIR/STTR Innovator Training Workshop (Additional Fee Required)	Maryland 4-5
8:45	Coffee Break	Convention Center Pre-function
1:30	SBIR/STTR Innovator Training Workshop (Additional Fee Required)	Maryland 4-5

Tuesday, June 20 (Registration: 7:00am - 6:00pm, Convention Center Pre-Function)

8:30	Joint TechConnect & SBIR/STTR Keynote Program	Maryland A
10:00	Coffee Break, Sponsored by 	Convention Center Pre-function
10:30	SBIR/STTR Innovation Summit: SBIR 101	Maryland 4
11:00	SBIR/STTR Innovation Summit: Reverse Pitches	Maryland 3
1:00	SBIR/STTR Innovation Summit: Navigating Agency Differences	Maryland 3
1:00	SBIR/STTR Innovation Summit: DoD Deep Dive	Maryland 4
2:00	SBIR/STTR Innovation Summit: Where Can I Get Help?	Maryland 3
2:00	SBIR/STTR Innovation Summit: NSF Deep Dive	Maryland 4
2:30	SBIR/STTR Innovation Summit: NIH Deep Dive	Maryland 4
3:00	Success Panel: Hear about the entrepreneurial journey from SBIR/STTR recipients	Maryland 3
3:00	SBIR/STTR Innovation Summit: NASA Deep Dive	Maryland 4
3:30	SBIR/STTR Innovation Summit: DOE Deep Dive	Maryland 4

UPCOMING EVENT: SEEDING AMERICA'S FUTURE INNOVATIONS



techconnect.org/events/


SBIR/STTR FALL
INNOVATION CONFERENCE

NOV. 28-30, 2023 | WASHINGTON, DC
Gaylord National Hotel & Convention Center



SBIR/STTR SPRING

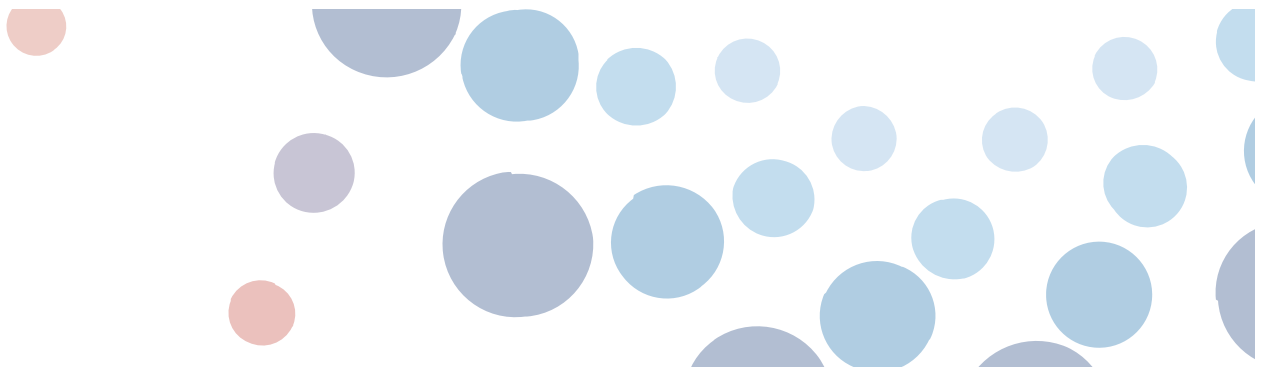
INNOVATION CONFERENCE

Day-At-A-Glance

Wednesday, June 21 (Registration: 8:30am- 1:00pm, Convention Center Pre-Function)

8:00	SBIR/STTR Agency Table Tops	Maryland 1-6 Hallway
8:30	Coffee Break	Convention Center Pre-function
9:00	SBIR/STTR Innovation Summit: Inside the Head of an Evaluator	Maryland 3
9:00	SBIR/STTR Innovation Summit: Working with DoD Primes	Maryland 4
10:00	SBIR/STTR Innovation Summit: Executing My Award	Maryland 3
10:00	SBIR/STTR Innovation Summit: Cybersecurity Resources for Small Business Research	Maryland 4
11:00	SBIR/STTR Innovation Summit: Spotlight - Climate Topics	Maryland 3
11:00	SBIR/STTR Innovation Summit: Phase III	Maryland 4
1:00	SBIR/STTR ESO Meeting (Private Meeting)	Chesapeake 10

View all Keynote & Invited Speakers here:
<https://www.techconnectworld.com/World2023/bio.html>



UPCOMING EVENT: SEEDING AMERICA'S FUTURE INNOVATIONS



SBIR/STTR SPRING
 INNOVATION CONFERENCE

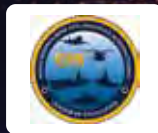
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ADVANCED MANUFACTURING CHALLENGE

In Partnership with



Sustainability



Autonomy



Materials



Energetics



Lasers



Hypersonics

Day-At-A-Glance

Tuesday, June 20

10:00	Coffee Break, Sponsored by 	Convention Center Pre-function
10:30	Navy MANTECH Advanced Manufacturing Challenge	National Harbor 5
1:00	Navy MANTECH Advanced Manufacturing Challenge	National Harbor 5
2:30	Navy MANTECH Advanced Manufacturing Challenge	National Harbor 5

Advanced Manufacturing Challenge - Finalists

- 4TH Phase Technologies, Inc., US
- A2O Advanced Materials Inc., CA
- Aivot Robotics, Inc, US
- Akita Innovations LLC, US
- Beacon Industries Inc., US
- Bryka Skystocks LLC, US
- Ce-Ri-SS Materials LLC, US
- Civan Lasers USA, US
- Continuous Composites, US
- Craitor, Inc., US
- Create LLC, US
- DC Precision Ceramics LLC, US
- Denssec ID, US
- Elementiam Materials & Manufacturing Inc., CA
- EngeniusMicro, US
- FLX Solutions, US
- HIDENN-AI, LLC, US
- LightSpeed Concepts Inc., US
- Luna Labs USA, LLC, US
- Oklahoma State University, US
- Optowares, Inc., US
- Orbital Composites, Inc., US
- Princeton Infrared Technologies, Inc., US
- The University of British Columbia, Dept. of Electrical and Computer Eng., CA

FUSION MANUFACTURING CHALLENGE



Presented by



UK Atomic
Energy
Authority



Commonwealth
Fusion Systems

Day-At-A-Glance

Monday, June 19

8:45	Coffee Break	Conv. Center Pre-function
1:30	Fusion Manufacturing Innovation Challenge - UK Atomic Energy Authority & Commonwealth Fusion Systems	Maryland 3
2:40	Fusion Manufacturing Innovation Challenge - UK Atomic Energy Authority & Commonwealth Fusion Systems	Maryland 3

Fusion Manufacturing Challenge

Scientists and engineers across the world are in pursuit of creating ‘the sun in a bottle’ – a fusion power plant – with the goal of creating the ultimate clean and sustainable energy source on earth. The United Kingdom Atomic Energy Authority (UKAEA) and Commonwealth Fusion Systems (CFS) are two leading organizations in the field of fusion developing such devices. Join this noble Challenge as we seek power plant support materials include: reduced activation ferritic martensitic steel, nickel-based superalloys, high nickel content steel-based alloys, and austenitic steels.

Fusion Manufacturing Challenge - Finalists

- AlchLight, LLC, US
- ALSYMEX, FR
- Baugh and Weedon NDE Ltd, US
- Dr. Fritsch GmbH & Co. KG, DE
- Fourier LLC, US
- Imperial College London, US
- Transition45 Technologies, Inc., US
- Unitive Design and Analysis Ltd, US
- University of Nottingham, US


CBRN DEFENSE MODERNIZATION CHALLENGE

In Partnership with



Day-At-A-Glance

Tuesday, June 20

10:00	Coffee Break, <i>Sponsored by</i> 	Convention Center Pre-function
1:00	CBRN Defense Challenge - Protection	Maryland CD
2:00	CBRN Defense Challenge - Medical	Maryland CD
3:00	CBRN Defense Challenge - Medical	Maryland CD
4:00	CBRN Defense Challenge - Sensors	Maryland CD

CBRN Defense Modernization Challenge - Finalists

- Akita Innovations, LLC, US
- Arisan Therapeutics, US
- Azevan Pharmaceuticals, Inc, US
- Captura Biopharma, Inc, US
- Charles River Analytics, Inc., US
- Domenix, US
- Euclid Techlabs, LLC, US
- General Biologics, Inc., US
- Glyphic Bio, US
- Guild Associates Inc, US
- HQ SCIENCE LIMITED, UK
- InnoTech Precision Medicine, Inc, US
- InnovaRegi, LLC, US
- KEF Robotics Inc, US
- Lumen Bioscience, Inc., US
- Measurement Technology Laboratories, US
- Northstar Emergency Management, LLC, US
- NuMat Technologies, US
- Olifant Medical, US
- Sensible Diagnostics, Inc., US
- University of Nebraska - Lincoln, US
- University of Washington, US
- Verndari, Inc., US

Join the MCDC and CWMD to access one of the nation's largest emerging health-tech funding pipelines aligned with federal priorities:

- Medical CBRN Defense Consortium (MCDC) - www.medcbrn.org
- Countering Weapons of Mass Destruction Consortium (CWMD) - www.cwmdconsortium.org



HEALTH TECH AND SPACE SPRINT

Sponsored by



Day-At-A-Glance

Monday, June 19

8:45	Coffee Break	Conv. Center Pre-function
10:30	Health Tech and Space Sprint - Sponsored by Brycetekh	Maryland 3

Health Tech And Space Sprint - Finalists

Access to space provides unique opportunities to create and refine technologies that provide benefit astronauts and Earth-dwellers alike, including in the areas of health and medicine. Join BryceTech, a leading technology management and acquisition support company, as we facilitate opportunities to develop technological advances at the intersection of health and space for astronauts and terrestrial populations.

Health Tech And Space Sprint - Finalists

- Ejenta, US
- EverMind, US
- Massachusetts General Hospital, US
- MelaTech, US
- Nanoionix, LLC, US
- Neurxstem, US
- SiOxMed, US
- UC Berkeley, US
- ViBo Health, US

Focus Area

- Biotechnology
- Bioprinting and Biomanufacturing
- Diagnostics
- Microgravity Grown Organs
- Pharmaceuticals
- Sensors
- Telehealth & Remote Monitoring

Special Symposium

Innovations in Rare Earths and Critical Minerals



Resource extraction



Alternative sources



Magnet manufacturing



Processing innovation



Separation technologies



Waste management




Substitute innovations

Day-At-A-Glance

Monday, June 19

8:45	Coffee Break	Conv. Center Pre-function
9:00	Challenges and Technologies in Critical Mineral Mining	National Harbor 12
1:30	Extraction of Critical Minerals, National Harbor 12	National Harbor 12

Tuesday, June 20

10:00	Coffee Break, Sponsored by 	Conv. Center Pre-function
10:30	Rare Earths & Critical Materials - Keynotes	National Harbor 12
1:30	REE: Advances in Solvent Separation Technologies	National Harbor 12
3:00	REE: Advances in Solid-Liquid/Ion-Exchange Separation Technologies	
4:00	Rare Earths & Critical Materials - Posters	Expo Hall AB

Wednesday, June 21

8:30	Coffee Break	Conv. Center Pre-function
9:00	Rare Earths and Permanent Magnets - Innovations & Challenges	National Harbor 12

Special Symposium



SPMConnect Sponsor




Day-At-A-Glance

Monday, June 19

8:45	Coffee Break	Conv. Center Pre-function
9:00	SPM: Dynamic Processes at Solid-liquid Interfaces	National Harbor 4
10:40	SPM: Dynamic AFM	National Harbor 4
1:30	SPM: Machine Learning & Automation	National Harbor 4
3:30	SPM User Facilities Leadership Panel	National Harbor 4

Tuesday, June 20

10:00	Coffee Break, <i>Sponsored by</i> 	Conv. Center Pre-function
10:30	SPM Based Chemical Spectroscopy	National Harbor 4
1:30	SPM in Biology & Medicine	National Harbor 4

Wednesday, June 21

8:30	Coffee Break	Conv. Center Pre-function
9:00	SPM: Nanomechanics & Tribology	National Harbor 4
1:30	SPM: Voltage Modulated SPM Modes	National Harbor 4

Special Symposium

CHIPS R&D Challenges and Opportunities

Day-At-A-Glance

Monday, June 19

8:45	Coffee Break	Conv. Center Pre-function
1:30	CHIPS: Current Challenges and New Solutions to Boost Domestic Chips Manufacturing I	Chesapeake 3

Tuesday, June 20

10:00	Coffee Break, <i>Sponsored by</i> 	Conv. Center Pre-function
10:30	CHIPS: Current Challenges and New Solutions to Boost Domestic Chips Manufacturing II	Chesapeake 3
1:30	CHIPS: Advanced Metrology to Ensure Success for Next Generation Semiconductors	Chesapeake 3

Wednesday, June 21

8:30	Coffee Break	Conv. Center Pre-function
9:00	CHIPS: Advances in Packaging for New Chips Innovation	Chesapeake 3

Special Symposium

R&D Capital Summit

Sponsored by



Day-At-A-Glance

Wednesday, June 21

8:30	Coffee Break	Conv. Center Pre-function
9:00	R&D Capital Summit - Fireside with Office of Strategic Capital	Annapolis 1
9:55	R&D Capital Summit - Investing in Disruption	Annapolis 1
10:50	R&D Capital Summit - The Strength of America's Capital Markets	Annapolis 1

R&D Capital Summit

Private capital is vital for our innovation economy, especially in shaping and scaling critical technologies essential for national security. The Department of Defense must prioritize private investment in its projects to maintain a dominant position in today's geopolitical landscape.

Join Advanced Technology International (ATI), the nation's leader in R&D collaboration management, as we host key discussions on private capital and the future of emerging critical technologies, including the Office of Strategic Capital's initiatives, investments in dual-use technologies, stability in commercial banking, and the future of M&A.

Sponsored by Advanced Technology International (ATI) - www.ati.org

The TechConnect World Expo

The 2023 TechConnect World Expo hosts over 150 companies, universities, laboratories, trade organizations, and member associations, showcasing their latest technologies, products and solutions.

EXPO HOURS

Monday, June 19	12:00pm to 6:00pm
Tuesday, June 20	12:00pm to 6:00pm

LOCATION

Prince George's Halls AB,
Lower Level

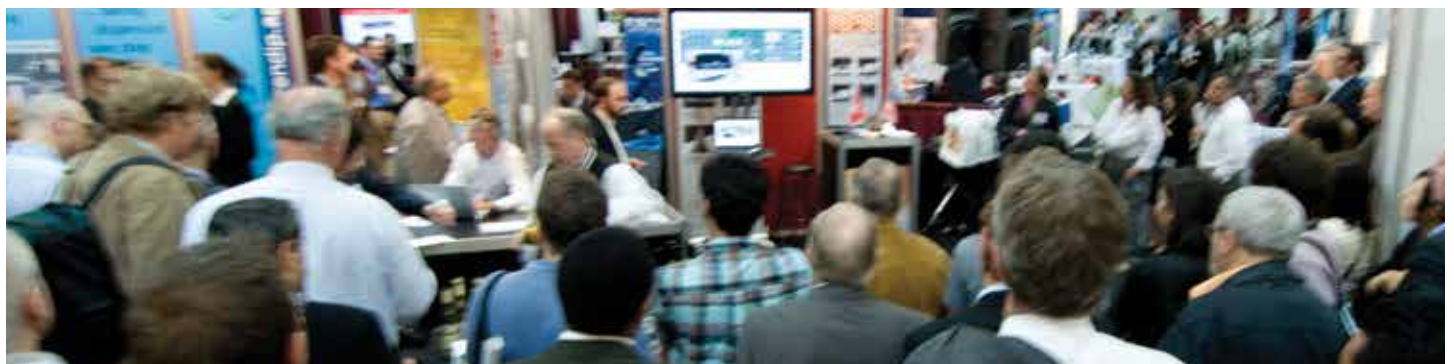


POSTER PRESENTATIONS

View the latest research from hundreds of today's brightest scientists who are discovering the technologies that will drive the next wave of business opportunities. Discover new investment and partnering opportunities that can only be found at the 2023 TechConnect World Expo.

Poster presentations will be held:

Monday, June 19: 4:00pm - 6:00pm, Expo Floor
Tuesday, June 20: 4:00pm - 6:00pm, Expo Floor



For a complete list of the TechConnect World Expo participants and to view the exposition floor plan, please visit pages 44 & 45.
For a complete list of Innovation Showcase participants and to view the showcase floor plan, please visit page 46.

TechConnect Demos and Drinks, SBIR/STTR Pavilion, EPA P3 National Student Design Expo, and XTech Army Booth and Demos

TECHCONNECT DEMOS AND DRINKS - Monday, June 19 & Tuesday, June 20, 4pm-6pm

This section features vetted innovations actively looking for strategic and/or financial partners. Stop by their booths for a conversation and pick up a drink ticket!

CORPORATE SCOUT SPEED DATING - Monday June 19, 4pm-6pm

- Arkema, US
- BryceTech, US
- Dundee Precious Metals, US
- Henkel, DE
- Linde, IE
- Rio Tinto, US
- TechLink, US
- Resonac, US
- Raytheon, US
- Saint-Gobain, FR
- Koch Modular Process, US
- Dow, US
- ATI - Innovation Funding Pipeline, US
- ATI - Navy ManTech, US
- ATI - CWMD Consortium, US
- ATI - Medical & CBRN Defense Consortium, US

XTECH ARMY BOOTH AND DEMOS SCHEDULE

Monday, June 19 & Tuesday, June 20, 12pm-6pm. Demos 1pm-5:45pm

The Army xTech Program, led by the (ASA)(ALT)), manages the Army's prize competitions to award and accelerate transformative technology solutions that can help solve Army problems. The xTech Program booth will showcase the 20 finalists from the xTechSearch 7 competition, where they will exhibit and demonstrate their technology concepts and capabilities addressing various topics during Demos from 1pm-5:45pm Monday and Tuesday. To view their Demos schedule on the floor visit: <https://techconnectworld.com/World2023/Army-xTech/>.

SBIR/STTR PAVILION

Tuesday, June 20, 12pm-6pm. SBIR Tabletops, Wednesday, June 21, 8am-12pm, outside Maryland Rooms

Don't miss this opportunity to meet with several SBIR/STTR funding offices from a host of federal agencies, including

- U.S. Department of Defense (DOD)
- U.S. Department of Energy (DOE)
- U.S. Army
- U.S. Navy
- U.S. Air Force
- National Institutes of Health (NIH)
- NASA
- NOAA
- National Science Foundation (NSF)
- Department of Homeland Security (DHS)
- Missile Defense Agency (MDA)
- DARPA
- Defense Health Agency (DHA)
- U.S. Department of Education (DoEd)
- Environmental Protection Agency (EPA)
- U.S. Department of Agriculture (USDA)
- SBA
- OSD

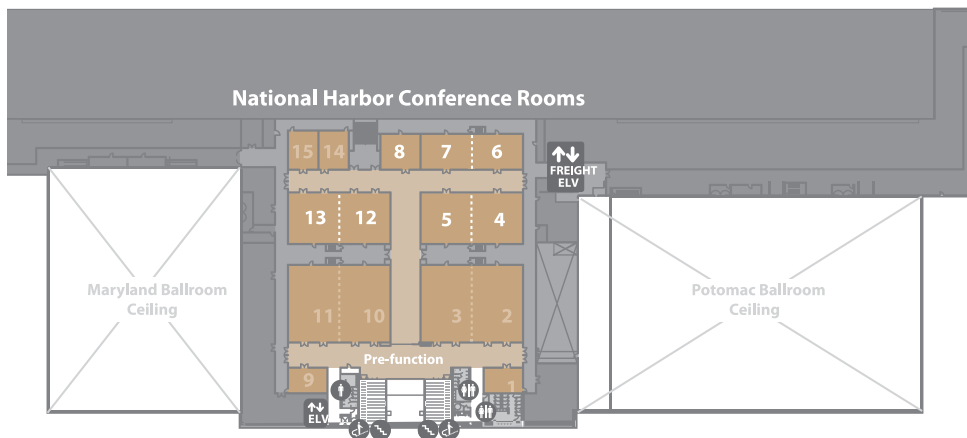
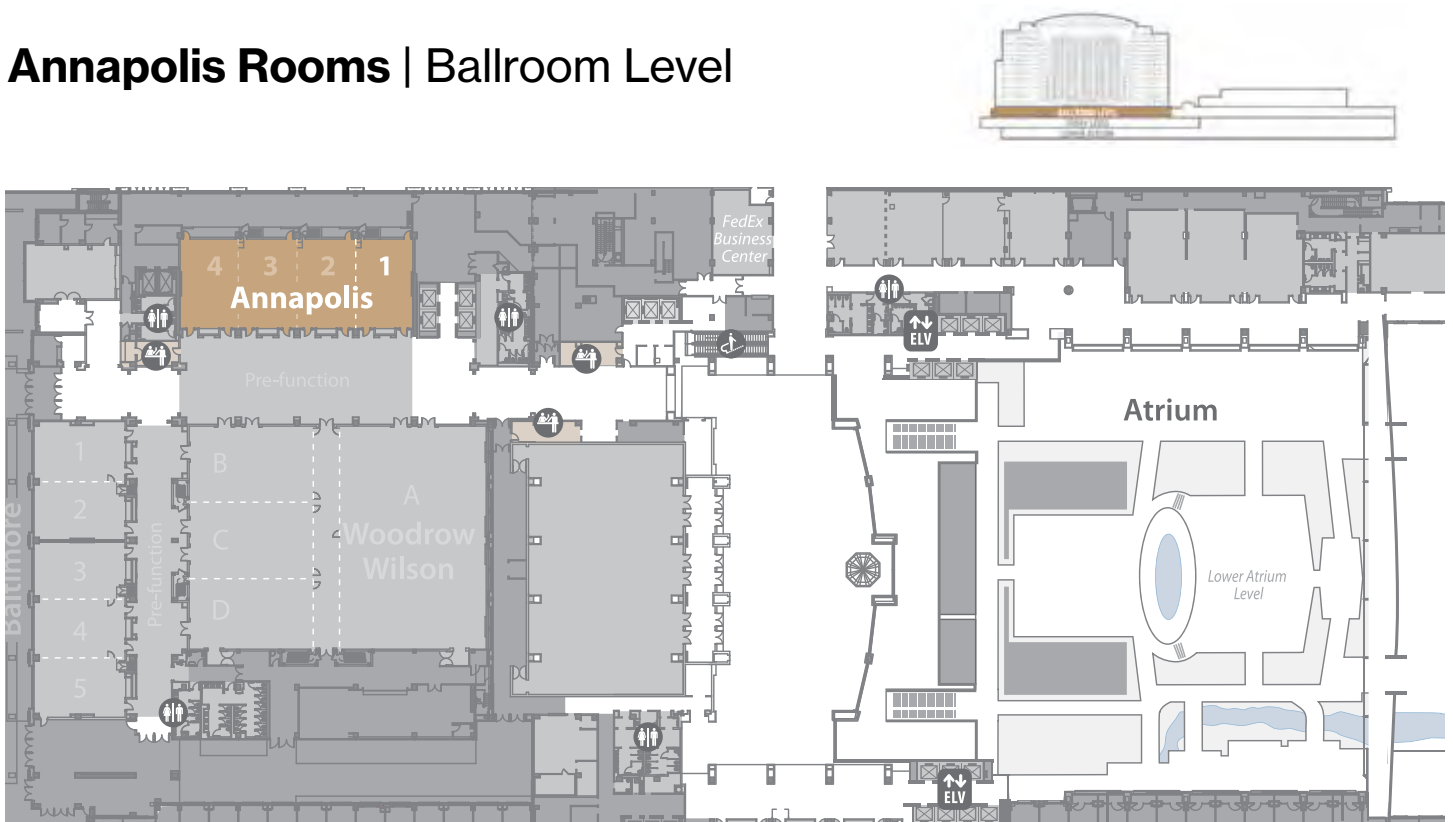
EPA P3 NATIONAL STUDENT DESIGN EXPO - Tuesday, June 20, 12pm-6pm

EPA's P3 National Student Design Expo features Phase I college student teams showcasing their innovative solutions to real-world environmental and public health challenges.

Convention Center Floor Plans

Gaylord National Hotel & Convention Center

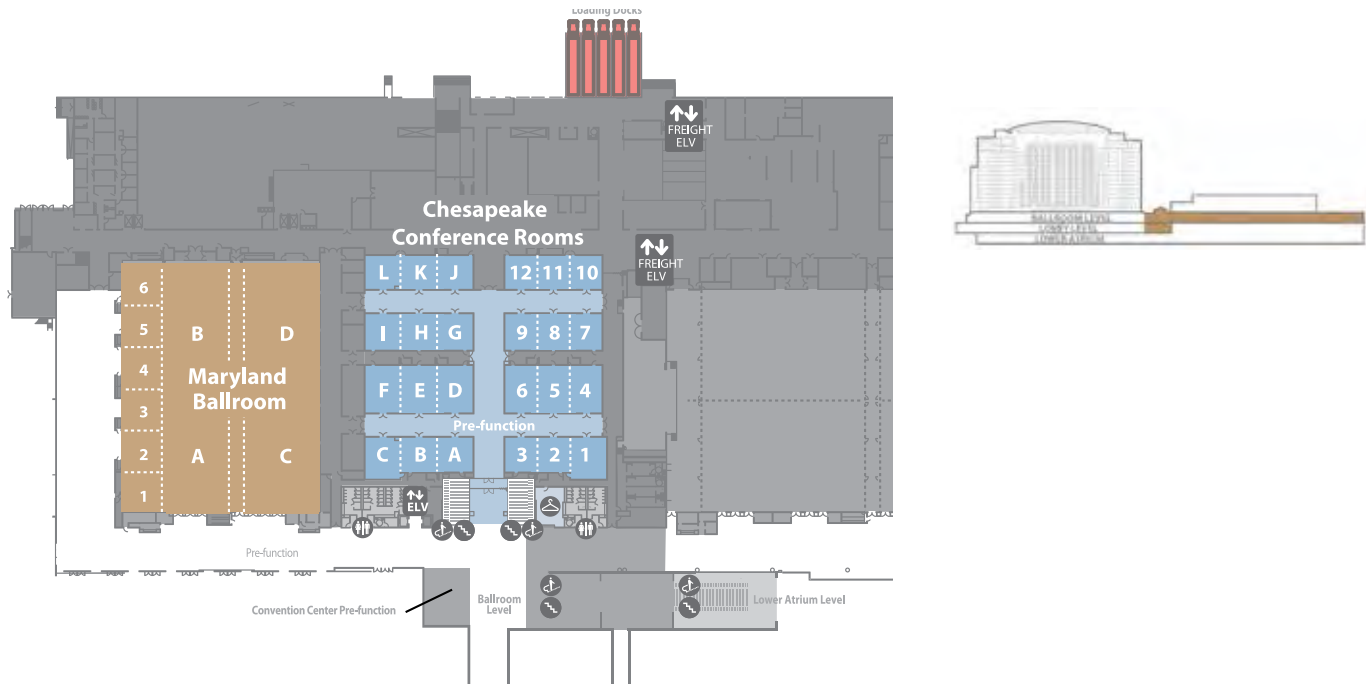
Annapolis Rooms | Ballroom Level



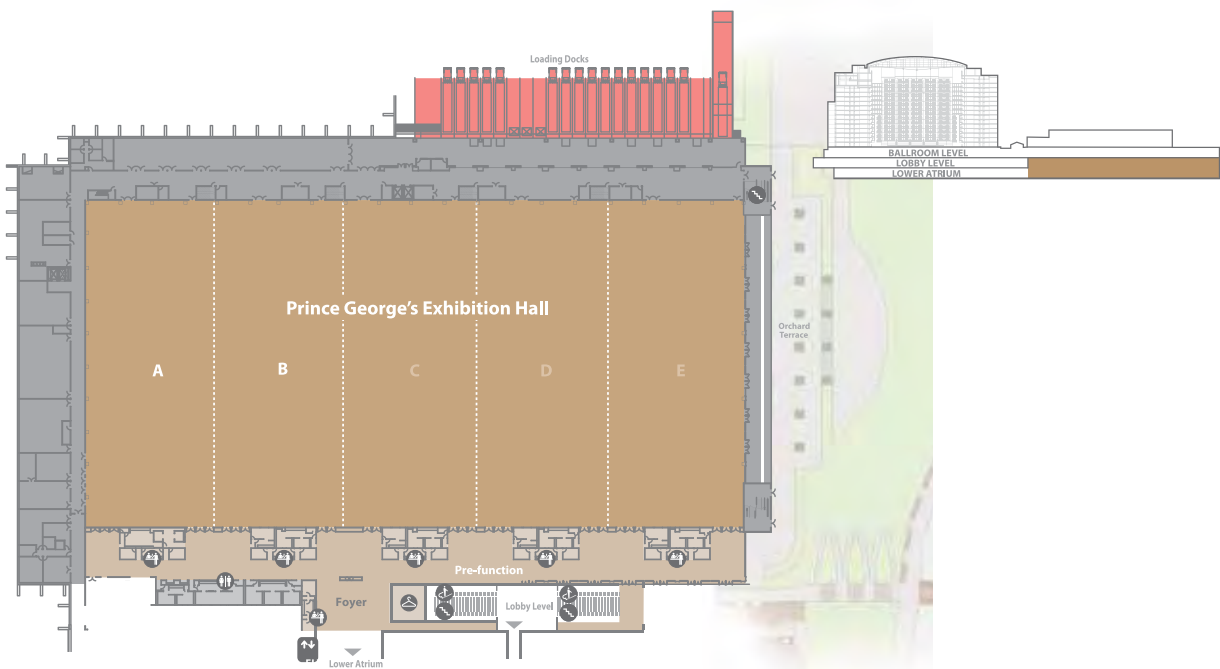
National Harbor Rooms | Upper Level



Maryland Ballroom and Chesapeake Rooms | Ballroom Level



Prince George Exhibition Hall A&B | Lower Level

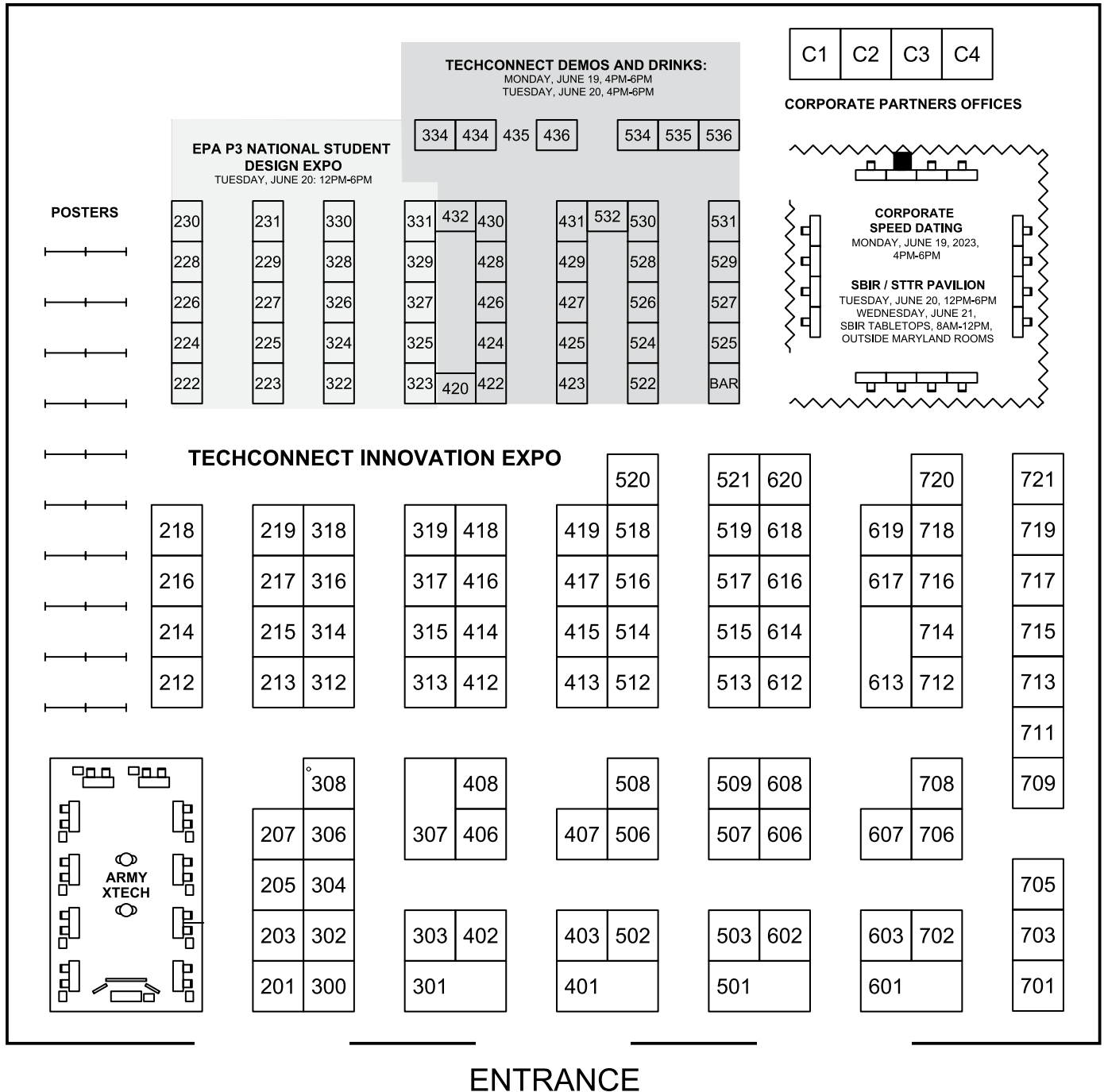


Exhibitor List and Floor Plan

Expo Location and Hours: Gaylord National Convention Center, Expo Hall AB

Monday, June 19, 12:00pm-6:00pm

Tuesday, June 20, 12:00pm-6:00pm



TechConnect World Innovation Exhibitors

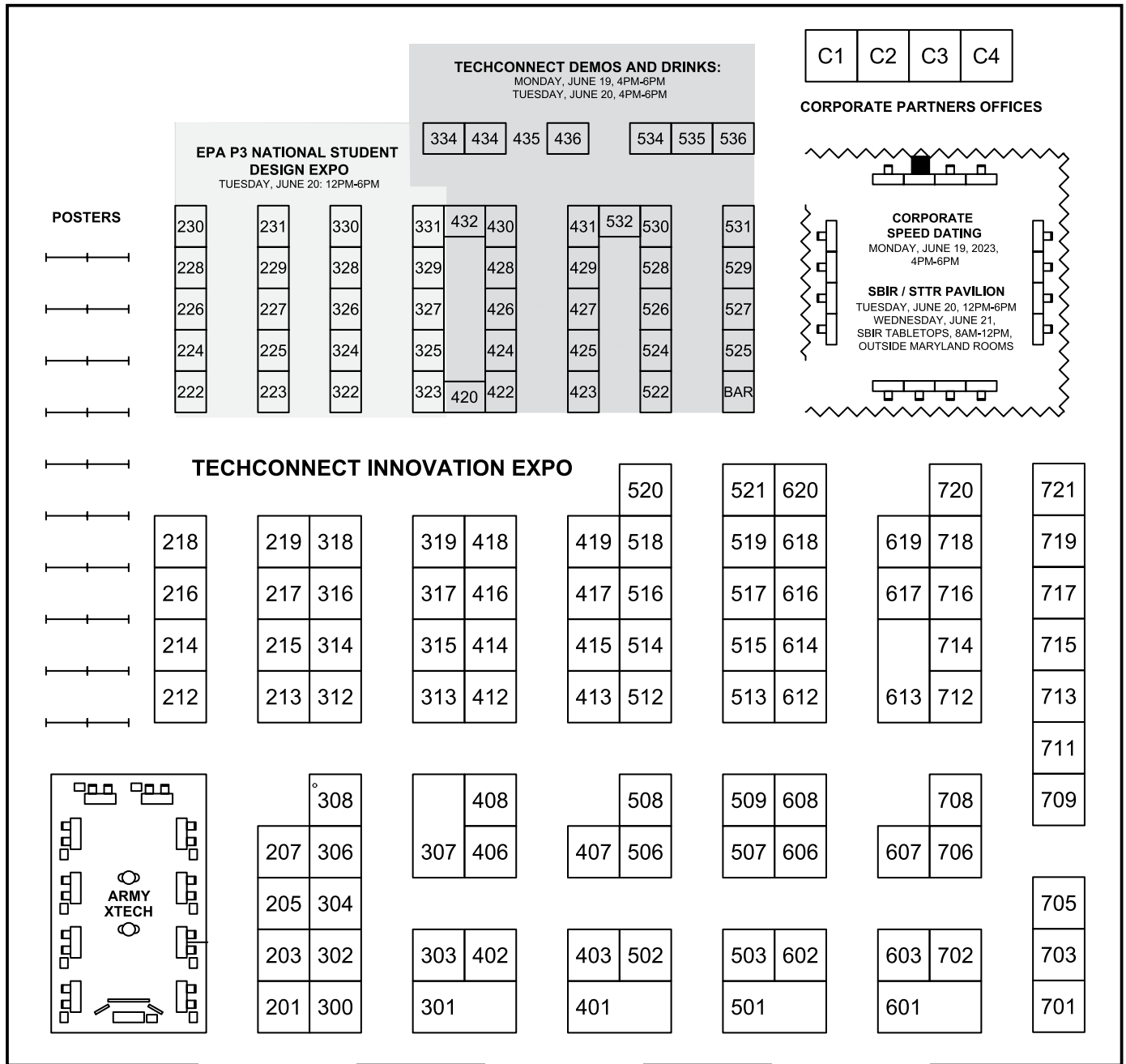
Organization	Booth#	Organization	Booth#	Organization	Booth#
Absolute Concept Designs	212	FLEXcon	715	Rare Earth Technologies	307
American Data Solutions	304	Foresight Science & Technology, Inc.	717	REM Surface Engineering	614
Ames National Laboratory	401	Fortis Life Sciences	306	RISE	509
Argonne National Laboratory	606	Gravel Robotics, EPA P. Hurd Awardee 2021	223	Rowan University	719
Arkema Inc.	C4	GSA FEDSIM	313	RVmagnetics, a.s.	314
attocube systems Inc.	607	Guild Associates, Inc.	218	Society for Science at User Research Facilities	308
AZ Commerce	701	Hawk Ridge Systems	517	Stanford University Office of Technology Licensing	519
BBC Entrepreneurial Training & Consulting	414	HIDENN-AI, LLC	618	TechConnect Division, Advanced Technology International	501
Beacon Industries	217	Innventure	702	TechOpp Consulting, Inc.	402
Bruker	403	Integration Technologies Group, Inc.	214	Texas Tech University Office of Research Commercialization	705
Cambridge Advanced Research and Education in Singapore Ltd.	718	Jameson & Company LLC	412	The Australian National University	406
CASFER Engineering Research Center	315	Jaseci Labs	317	The Hong Kong Polytechnic University - Research and Innovation Office	312
Cerion Nanomaterials	602	Jefferson Lab	216	The University of Chicago	219
Cigent Technologies	419	Kaleo	713	U.S. Department of Energy - Office of Fossil Energy & Carbon Management	215
Clarivate	721	Koch Modular Process Systems, LLC	712	United Kingdom Atomic Energy Authority	706
Coatema Coating Machinery GmbH	413	Korea Institute of Energy Research (KIER)	613	University Corporation for Atmospheric Research	608
Copprium, Inc.	514	Larta Institute	612	University of Minnesota, Office for Technology Commercialization	708
Cyclo.Cloud, EPA P. Hurd Awardee 2022	222	Laser Thermal Inc.	213	VPI Technology	319
CyOne, Inc.	207	Lift-Off Pipe Supports/500 Projects	506	Washington State University, Office of Commercialization	709
Cypris	716	Linde	C2	Wellspring Venture	307
Edge Technologies, Inc.	516	Lockheed Martin Corporation	C1	Xairgen LLC	212
Engineering Research Vision Alliance	303	Lukasiewicz Research Network - Institute of Microelectronics and Photonics	515	XTech Army	100
Enig Associates, Inc.	617	Marshallton Research Laboratories Inc.	513	Anello Photonics	
EPA P3: Ball State University	224	Materic LLC	603	Arbor Batteries LLC	
EPA P3: Embry-Riddle Aeronautical University	226	MemComputing, Inc.	616	Axiom Technologies	
EPA P3: Georgia Southern University	228	Mississippi Polymer Institute	415	Carbon SiC Technologies, Inc.	
EPA P3: Gonzaga University	230	Mississippi State University	619	Dragoon Technology, LLC	
EPA P3: Manhattan College	225	Mobilize	711	Flyt Aerospace	
EPA P3: Michigan State University	227	Molecular Rebar Design, LLC.	201	ForSight Technologies dba TeraDAR	
EPA P3: Montclair State University	229	National Corn Growers Association	700	Helicoid Industries Inc.	
EPA P3: New Jersey Institute of Technology	231	National Energy Technology Laboratory	203	Impressio Tech	
EPA P3: Oregon State University	324	National Technology & Engineering Solutions of Sandia, LLC (NTESS)	302	J3D Labs, Inc.	
EPA P3: Texas State University	326	National University of Singapore	518	Moleaar Inc.	
EPA P3: The University of Alabama	328	necoTECH	418	NanTenna	
EPA P3: University of Cincinnati	330	Neuro Rehab VR	205	Notch Inc.	
EPA P3: University of Colorado Boulder	329	Northrop Grumman Corporate	503	Protonex LLC dba PNI Sensor	
EPA P3: University of Missouri	327	NSTIC	507	Sempulse Corporation	
EPA P3: University of Wisconsin-Madison	325	Oak Ridge National Laboratory	400	Soar Technology, Inc.	
EPA P3: US EPA P3 Program	322	Omnisync	416	Talus Ridge	
EPA P3: Villanova University	323	Orbital Composites, Inc.	316	Tyfast Energy Corp.	
EPA P3: Western Kentucky University	331	Park Systems	512	WingXpand	
Farmed Materials	307	Physical Electronics	508	Xona Space Systems Inc.	
Federal Laboratory Consortium	500	Pollen Metrology	714	Zamorins Solutions Inc.	408
Fedsprout	703	Quantica GmbH	300		
Fenwick & West LLP	502	Quantum Cat. Co., Ltd	407		
Fermilab	301	Radmantis	318		
		Radom Corporation	417		

TechConnect Demos and Drinks, EPA P3 National Student Design Expo, and SBIR/STTR Pavilion and Floor Plan

Expo Location and Hours: Gaylord National Convention Center, Expo Hall AB

Monday, June 19, 12:00pm-6:00pm

Tuesday, June 20, 12:00pm-6:00pm



ENTRANCE

TECHCONNECT DEMOS AND DRINKS

Monday, June 19, 4:00pm-6:00pm

Tuesday, June 20, 4:00pm-6:00pm

Organization	Booth#	Organization	Booth#
3 CulinaryMed Docs	527M	Margik Inc.	522T
Academia Sinica	429M	Matregenix	431T
Agentis Air LLC	431M	Metakosmos	425M
Axon Medical Technologies	536T	Microbeam Technologies Inc	427M
Blumen Systems	528M	MicroSilicon	524M
BotBuilt	525M	Nanomand	531T
Callentis Consulting Group	422T	Nanomatronix	432T
Canfield CyberDefense Group, CCG	530M	Neurxstem Inc	524T
Data Twin/Texas State University	420T	Pacific Advanced Technology Inc	423T
DeltaHawk Engines, Inc.	424M	Precient Technologies, LLC	428M
Electrified Thermal Solutions, Inc.	532T	Quantum Boost Ltd.	535T
EndoTheia, Inc.	426M	Salt-Free Water Systems LLC	530T
Espre Technologies, Inc.	426T	Sensobright Industries LLC	526M
Forcing Function LLC	529T	Singapore University of Technology and Design	430M
GEM	429T	SingletO2 Therapeutics	526T
Genesis Codes Inc	423M	Soliyarn	522M
Georgia State University	534T	Spectrohlm, Inc.	425T
Immobileyes Inc.	428T	Tampa Deep Sea Xplorers	422M
Innogized Technologies, Inc	529M	The Provenance Chain Network	424T
Isosceles Pharmaceuticals	525T	Thermorefinery Technologies Inc.	528T
KeyCaliber	437T	Trabus Technologies	427T
LAU Superconductors	430T	ZlprPrint	527T
MAE Group	531M		

Key: M = Monday T = Tuesday

SBIR/STTR Agency Pavilion

Tuesday, June 20, 12:00pm-6:00pm

Wed, June 21, 8:00am-12:00pm,
Outside Maryland Rooms

CDC	EPA	Air Force
DOD	NASA	Army
DOE	NIH	DARPA
DOT	NIST	DHA
SBA	NOAA	MDA
DoEd	NSF	Navy
DHS	USDA	

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SBIR/STTR SPRING
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techconnect.org/events/

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work by *Chambers USA* (2022)

**TOP
10**

The American Lawyer's
Composite Ranking Index of
diversity and revenue



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technology companies by
Chambers Global (2023)



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1 H 1.00794 Hydrogen																	2 He 4.002602 Helium
3 Li 6.941 Lithium	4 Be 9.012182 Beryllium											5 B 10.811 Boron	6 C 12.0107 Carbon	7 N 14.0067 Nitrogen	8 O 15.9994 Oxygen	9 F 18.9984032 Fluorine	10 Ne 20.1797 Neon
11 Na 22.98976928 Sodium	12 Mg 24.305 Magnesium											13 Al 26.9815386 Aluminum	14 Si 28.0855 Silicon	15 P 30.973762 Phosphorus	16 S 32.065 Sulfur	17 Cl 35.453 Chlorine	18 Ar 39.948 Argon
19 K 39.0983 Potassium	20 Ca 40.078 Calcium	21 Sc 44.955912 Scandium	22 Ti 47.887 Titanium	23 V 50.9415 Vanadium	24 Cr 51.9961 Chromium	25 Mn 54.938045 Manganese	26 Fe 55.845 Iron	27 Co 58.933195 Cobalt	28 Ni 58.9334 Nickel	29 Cu 63.546 Copper	30 Zn 65.38 Zinc	31 Ga 69.723 Gallium	32 Ge 72.64 Germanium	33 As 74.9216 Arsenic	34 Se 78.96 Selenium	35 Br 79.904 Bromine	36 Kr 83.798 Krypton
37 Rb 85.4678 Rubidium	38 Sr 87.62 Strontium	39 Y 88.90585 Yttrium	40 Zr 91.224 Zirconium	41 Nb 92.90638 Niobium	42 Mo 95.96 Molybdenum	43 Tc 98.01 Technetium	44 Ru 101.07 Ruthenium	45 Rh 102.9055 Rhodium	46 Pd 106.42 Palladium	47 Ag 107.8682 Silver	48 Cd 112.411 Cadmium	49 In 114.818 Indium	50 Sn 118.710 Tin	51 Sb 121.76 Antimony	52 Te 127.6 Tellurium	53 I 126.90447 Iodine	54 Xe 131.293 Xenon
55 Cs 132.9054 Cesium	56 Ba 137.327 Barium	57 La 138.90547 Lanthanum	58 Ce 140.116 Cerium	59 Pr 140.90765 Praseodymium	60 Nd 144.242 Neodymium	61 Pm (145) Promethium	62 Sm 150.36 Samarium	63 Eu 151.964 Europium	64 Gd 157.25 Gadolinium	65 Tb 158.92535 Terbium	66 Dy 162.5 Dysprosium	67 Ho 164.93032 Holmium	68 Er 167.259 Erbium	69 Tm 168.93274 Thulium	70 Yb 173.054 Ytterbium	71 Lu 174.967 Lutetium	
87 Fr (223) Francium	88 Ra (226) Radium	89 Ac (227) Actinium	104 Rf (261) Rutherfordium	105 Db (268) Dubnium	106 Sg (271) Seaborgium	107 Bh (272) Bohrium	108 Hs (270) Hassium	109 Mt (278) Meitnerium	110 Ds (281) Darmstadtium	111 Rg (280) Roentgenium	112 Cn (285) Copernicium	113 Nh (284) Nihonium	114 Fl (289) Flerovium	115 Mc (288) Moscovium	116 Lv (293) Livermorium	117 Ts (294) Tennessine	118 Og (294) Oganesson

72 Ce 140.116 Cerium	73 Pr 140.90765 Praseodymium	74 Nd 144.242 Neodymium	75 Pm (145) Promethium	76 Sm 150.36 Samarium	77 Eu 151.964 Europium	78 Gd 157.25 Gadolinium	79 Tb 158.92535 Terbium	80 Dy 162.5 Dysprosium	81 Ho 164.93032 Holmium	82 Er 167.259 Erbium	83 Tm 168.93274 Thulium	84 Yb 173.054 Ytterbium	85 Lu 174.967 Lutetium
90 Th 232.0377 Thorium	91 Pa 231.03688 Protactinium	92 U 238.02891 Uranium	93 Np (237) Neptunium	94 Pu (244) Plutonium	95 Am (243) Americium	96 Cm (247) Curium	97 Bk (247) Berkelium	98 Cf (251) Californium	99 Es (252) Einsteinium	100 Fm (257) Fermium	101 Md (288) Mendelevium	102 No (289) Nobelium	103 Lr (260) Lawrencium

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