

**RESOLUTION APPROVING
TECHNOLOGY MANAGEMENT INSTITUTE, INC. CONSULTING
SERVICES PROPOSAL-BRIDGE/RPI INITIATIVE**

A regular meeting of the board of directors of Rensselaer County Capital Resource Corporation (the "Corporation") was convened in public session in the 3rd Floor Conference Room at the Quackenbush Building located at 333 Broadway in the City of Troy, Rensselaer County, New York on June 26, 2025 at 4:00 o'clock p.m., local time.

The meeting was called to order by the (Vice) Chairman of the Corporation and, upon roll being called, the following members of the Agency were:

PRESENT:

Justin Law, Esq.	Chairman
Matthew Polsinello	Vice Chairman
Cory Jones	Secretary/Treasurer
Justin Buchanan	Assistant Secretary/Treasurer
Frank Lewandusky	Director
Alyssa Otis	Director

ABSENT:

None

AGENCY STAFF PRESENT INCLUDED THE FOLLOWING:

Robert L. Pasinella, Jr.	Executive Director
Robin LaBrake	Assistant
Peter R. Kehoe, Esq.	Corporation Special Counsel
Christopher C. Canada, Esq.	Special Corporation Counsel

The following resolution was offered by Cory Jones, seconded by Alyssa Otis, to wit:

Resolution No. 0625-05

**RESOLUTION APPROVING SERVICES PROPOSAL IN CONNECTION OF THE
BRIDGE INITIATIVE.**

WHEREAS, pursuant to the provisions of Section 1411 of the Not-For-Profit Corporation Law of the State of New York, as amended (the "Enabling Act") and Revenue Ruling 57-187 and Private Letter Ruling 200936012, the County Legislature of Rensselaer County, New York (the "County") adopted a resolution (A) authorizing the incorporation of Rensselaer County Capital Resource Corporation (the "Corporation") under the Enabling Act and (B) appointing the initial members of the board of directors of the Corporation; and

WHEREAS, in October, 2018, a certificate of incorporation was filed with the New York Secretary of State's Office (the "Certificate of Incorporation") creating the Corporation as a public instrumentality of the County; and

WHEREAS, the Corporation is authorized and empowered by the provisions of the Enabling Act to relieve and reduce unemployment, promote and provide for additional and maximum employment, better and maintain job opportunities, and lessen the burdens of government and act in the public interest, and in carrying out the aforesaid purposes and in exercising the powers conferred in the Enabling Act, the Enabling Act declares that the Corporation will be performing essential governmental functions; and

WHEREAS, consistent with the Enabling Act, under its Certificate of Incorporation, the purpose of the Corporation is to lessen the burdens of government by, among other things, undertaking projects and activities within the County for the purpose of bettering and maintaining job opportunities and carrying on scientific research for the purpose of aiding the County by attracting new industry to the County or by encouraging the development of, or retention of, an industry in the County; and

WHEREAS, to accomplish its stated purposes, the Corporation is authorized and empowered under the Enabling Act to acquire real and personal property; to borrow money and issue negotiable bonds, notes and other obligations therefore; to lease, sell, mortgage or otherwise dispose of or encumber any of its real or personal property upon such terms as it may determine; and otherwise to carry out its corporate purposes in the territory in which the operations of the Corporation are principally to be conducted; and

WHEREAS, Rensselaer County Industrial Development Agency (the “Agency”) owns an approximately 0.2474 acre parcel of land located at 30 Third Street (a/k/a/ 333 Broadway) (tax map number 101.53-9-1) in the City of Troy, Rensselaer County, New York (the “Land”), together with an approximately 44,000 square foot building located thereon (the “Facility”) with certain furniture, fixtures, machinery and equipment therein (collectively, the “Equipment”) (the Land, the Facility and the Equipment hereinafter collectively referred to as the “Project Facility”); and

WHEREAS, pursuant to and in accordance with the Enabling Act and the Certificate of Incorporation, the Corporation is undertaking (A) an economic development project (“The Bridge Initiative”), in which the Agency is dedicating a portion of the Project Facility for a one-of-a-kind business accelerator and quantum leap with Rensselaer Polytechnic Institute (“RPI”) and (B) such other and further related activities in furtherance of the purposes stated in the Enabling Act and the Certificate of Incorporation; and

WHEREAS, pursuant to a request from the Corporation to the County, with the support of the Agency, to assist the Corporation with The Bridge Initiative, the County provided a grant to the Corporation in an amount equal to eight million dollars (\$8,000,000) (the “Grant”); and

WHEREAS, pursuant to the terms of an economic development funding agreement dated as of December 1, 2024 by and between the Corporation and the County, the County disbursed the proceeds of the Grant to the Corporation; and

WHEREAS, the Corporation desires to have an “active management and oversight” capability for The Bridge Initiative, but lacks the internal resources to oversee and engage RPI in their attempts to advance The Bridge Initiative; and

WHEREAS, Technology Management Institute, Inc., a Delaware State not-for-profit corporation (“TMI”), submitted a consulting proposal to the Corporation (the “Consulting Proposal”), attached hereto as Exhibit A, to provide the needed resources to advance The Bridge Initiative; and

WHEREAS, pursuant to the terms of the Consulting Proposal, the Corporation will pay TMI an amount not to exceed \$275,000, in two (2) installments over the six (6) month term of the Consulting Proposal; and

WHEREAS, pursuant to Article 8 of the Environmental Conservation Law, Chapter 43-B of the Consolidated Laws of New York, as amended (the "SEQR Act") and the regulations (the "Regulations") adopted pursuant thereto by the Department of Environmental Conservation of the State of New York (collectively with the SEQR Act, "SEQRA"), it appears that The Bridge Initiative and the Consulting Proposal constitute a "Type II Action" (as said quoted term is defined in SEQRA); and

WHEREAS, the members of the Corporation desire to approve the Consulting Proposal and authorize the Corporation to enter into the Consulting Proposal;

NOW, THEREFORE, BE IT RESOLVED BY THE MEMBERS OF RENSSELAER COUNTY CAPITAL RESOURCE CORPORATION AS FOLLOWS:

Section 1. The Corporation hereby determines that The Bridge Initiative and the Consulting Proposal constitute a "Type II action" (as said quoted term is defined in the Regulations), and therefore that no further determination or procedure under SEQRA is required with respect to The Bridge Initiative and the Consulting Proposal.

Section 2. Pursuant to the Enabling Act, the Corporation hereby finds and determines that:

(A) By virtue of the Enabling Act and the Certificate of Incorporation, the Corporation has been vested with all powers necessary and convenient to carry out and effectuate the purposes and provisions of the Enabling Act and to exercise all powers granted to it under the Enabling Act;

(B) The advancing of The Bridge Initiative, will relieve and reduce unemployment, promote and provide for additional and maximum employment and better and maintain job opportunities, and thereby lessen the burdens of government;

(C) It is desirable and in the public interest for the Corporation to enter into the Consulting Proposal to advance The Bridge Initiative upon the terms and conditions determined by the Chairman, Vice Chairman and/or Executive Director of the Corporation; and

(D) Neither the members, directors or officers of the Corporation, nor any person executing the Consulting Proposal, shall be liable thereon or be subject to any personal liability or accountability by reason of the execution, issuance or delivery thereof.

Section 3. Subject to review of the Consulting Proposal and any related documents or required actions by the Chairman, Vice Chairman, or Executive Director of the Corporation, and approval of the Consulting Proposal and any related documents by counsel to the Corporation, the Corporation hereby determines to (A) approve the Consulting Proposal and (B) execute the Consulting Proposal, in the form and substance as approved by the Chairman, Vice Chairman, and/or Executive Director of the Corporation, with advice from counsel to the Corporation.

Section 4. Subject to approval by counsel to the Corporation of the terms of the Consulting Proposal and any related documents, the Chairman, Vice Chairman, and/or Executive Director of the Corporation is hereby authorized to execute and deliver the Consulting Proposal, and, where appropriate, the Secretary (or Assistant Secretary) of the Corporation is hereby authorized to affix the seal of the

Corporation thereto and to attest the same, all in substantially the form thereof presented to the directors of the Corporation, with such changes, variations, omissions and insertions as the Chairman, Vice Chairman, and/or Executive Director shall approve, the execution thereof by the Chairman, Vice Chairman, and/or Executive Director to constitute conclusive evidence of such approval.

Section 5. The officers, employees and agents of the Corporation are hereby authorized and directed for and in the name and on behalf of the Corporation to do all acts and things required or provided for by the provisions of the Consulting Proposal, and to execute and deliver all such additional certificates, instruments and documents, to pay all such fees, charges and expenses and to do all such further acts and things as may be necessary or, in the opinion of the officer, employee or agent acting, desirable and proper to effect the purposes of the foregoing resolution and to cause compliance by the Corporation with all of the terms, covenants and provisions of the Consulting Proposal and related documents binding upon the Corporation.

Section 6. This Resolution shall take effect immediately.

The question of the adoption of the foregoing Resolution was duly put to a vote on roll call, which resulted as follows:

Justin Law, Esq.	VOTING	YES
Matthew Polsinello	VOTING	YES
Cory Jones	VOTING	YES
Justin Buchanan	VOTING	YES
Frank Lewandusky	VOTING	YES
Alyssa Otis	VOTING	YES

The foregoing Resolution was thereupon declared duly adopted.

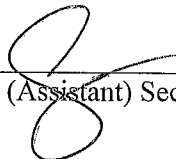
STATE OF NEW YORK)
) SS.:
COUNTY OF RENSSELAER)

I, the undersigned (Assistant) Secretary of Rensselaer County Capital Resource Corporation (the "Corporation"), DO HEREBY CERTIFY that I have compared the foregoing annexed extract of the minutes of the meeting of the directors of the Corporation, including the Resolution contained therein, held on June 26, 2025, with the original thereof on file in my office, and that the same is a true and correct copy of said original and of such Resolution contained therein and of the whole of said original so far as the same relates to the subject matters therein referred to.

I FURTHER CERTIFY that (A) all members of the Corporation had due notice of said meeting; (B) said meeting was in all respects duly held; (C) pursuant to Article 7 of the Public Officers Law (the "Open Meetings Law"), said meeting was open to the general public, and due notice of the time and place of said meeting was duly given in accordance with such Open Meetings Law; and (D) there was a quorum of the directors of the Corporation present throughout said meeting.

I FURTHER CERTIFY that, as of the date hereof, the attached Resolution is in full force and effect and has not been amended, repealed or rescinded.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the seal of the Agency this 26th day of June, 2025.



(Assistant) Secretary

(SEAL)

EXHIBIT A
CONSULTING PROPOSAL

**Services Proposal
Presented to the Capital Resource Corporation (CRC)
by Technology Management Institute, Inc. (TMI)**

May 8, 2025

Project Overview & Rationale

Technology Management Institute, Inc. (TMI), a Not-For-Profit 501-C-3 Corporation¹, proposes to be engaged by the Rensselaer County Capital Resource Corporation (CRC) to serve as the primary consultant for supporting the development, planning, and initial implementation of the CRC's "Bridge Initiative" within the Quackenbush Building, and to further advance the "Quantum Leap" initiative being pursued by the RCIDA.

In December 2024, the Rensselaer County Legislature passed the Rensselaer County Executive's proposed 2025 Budget, providing \$8M in funding for "The Bridge" initiative. TMI was an integral part of the RCIDA team in achieving this outcome. In early January 2025, RCIDA (and subsequently the CRC) received \$8M in funding.

As of late May 2025, a "funding agreement" between the CRC and RPI remains in negotiations. The expectation is for the CRC and RPI to enter a long-term (5 year) contract to develop and operate the "Bridge".

As the receiver of the \$8M funding from the Rensselaer County Legislature, the CRC Board has fiduciary responsibility to appropriately administer the funds and to obtain a "return on the investment" of the Bridge initiative. Consequently, the CRC Board has expressed the desire to have an "active management and oversight" capability for the Bridge initiative.

However, currently, the CRC lacks internal resources to oversee and engage RPI in their attempts to advance this initiative. Without access to independent professional support with relevant expertise, the CRC Board will need to rely solely on its own capacity to oversee the progress of this high-profile initiative.

TMI brings extensive experience in this arena [see <https://technologymanagementinstitute.com/>] and can provide dedicated advisory and operational support to the CRC Board delivering the

¹ TMI mission and purpose is to conduct and promote basic and applied research of contemporary education issues, which include but are not limited to -- perspectives from information technology, data analysis, cyber-security, cognitive systems engineering, innovation/technology commercialization and entrepreneurship. This includes making recommendations regarding policy impacts that would be useful to the individual and beneficial to the community [2021 IRS Form 990]

capabilities, insight, experience and expertise necessary to support the CRC Board's oversight, strategic assessment and budgetary decision-making.

Scope of Services

Technology Management Institute, Inc. (TMI), over the 6-month period, July 1, 2025, through December 31, 2025, TMI will provide resources and strategic support to the CRC to execute the following critical aspects of the CRC in implementing the "Bridge" initiative in the Quackenbush Building:

- I. Support the planning and developing of the "Bridge" activities within the Quackenbush building, in coordination with the RPI Bridge Program Manager.
- II. Provide administrative and management support to the CRC in accomplishing the CRC's fiduciary responsibility and activities as agreed to within the "funding agreement"² between RPI and the CRC.
- III. Identify potential funding opportunities to support the Bridge Initiative and related Technology Initiatives (e.g., "Quantum Leap").

Specific Tasks & Deliverables

Rensselaer County CRC and TMI agree that TMI will provide professional services to the CRC management team in support of the following tasks and efforts:

- *Task #1: Coordinating with RPI, Identify and Energize a Core Team of Partners to "Start-Up" the Bridge Program*
- *Task #2: Sustain Engagement with "Quackenbush" Partners and Build Buy-In [Center of Gravity; NYSTEC]*
- *Task #3: Engage Academic Partners and Build Buy-In [HVCC, UofA, others]*
- *Task #4: Engage Industry Partners and Build Buy-In [e.g., GE Vernova see <https://www.gevernova.com/>, BQP see <https://www.bqpsim.com/>]*
- *Task #5: Identify related and adjacent technology initiatives (e.g., "quantum leap") and pursue funding opportunities (local, State, Federal, Private sector)*

² A key aspect (and time intensive) in creating the Bridge will be developing (1) a funding agreement between the CRC and RPI; and, (2) a common-use agreement with key academic partners such as RPI, Hudson Valley Community College (HVCC), and the University of Albany, as well as certain technology-intensive local companies, to provide entrepreneurs broad access to the Bridge's programming and services.

- ***Task #6: CRC Board Reporting:*** Provide regular updates and briefings on project activities and milestones as requested by the CRC Board.

CRC and TMI agree to have TMI

- 1) Actively manage and support the CRC Bridge Initiative, dedicating adequate time and resources to the above activities over the six-month period.
- 2) Participate in and support CRC Board activities and meetings.
- 3) Organize and engage in status meetings with the CRC management team to discuss activities and progress toward accomplishing the above-mentioned tasks.
- 4) Remain accessible to the CRC management team to provide advisement and counsel on relevant matters.

Delivery of Services

Dr. Thomas Triscari, Jr., will be the principal assigned to this consulting agreement. *Additional consulting expertise will be engaged to support these tasks and activities as needed (all Consultant resumes are available for CRC review). With prior approval from CRC, TMI may contract with other appropriate individuals or organizations as needed to provide additional consultative services.*

TMI acknowledges and agrees that the services to be rendered pursuant to the terms of this proposal are rendered as an independent contractor. TMI does not anticipate being required to register with the New York State Commission on Lobbying as the result of any work performed on behalf of IDA and will not act as the representative of IDA in support or defeat of any legislation to the New York State Legislature.

Cost/Budget Estimate Breakout [July 1, 2025 – December 31, 2025]

Independent Contractors/Consultants³ (6 months): \$140,000
 TMI Leadership/Management Team⁴: \$40,000
 TMI Support Team⁵: \$30,000
 Advisors/Consultant⁶ (Subject-Matter-Experts): \$30,000
 Travel: \$18,000
 TMI Administration/Support⁷: \$17,000

TOTAL: \$275,000

³ Michael Hutchinson and Tim Clancy would be engaged by TMI to support primarily the “Bridge Initiative” as well as the “Quantum Leap” initiative (see deliverables).

⁴ TMI’s Executive Director Dr. Triscari will guide and oversee the effort (@ 40% of his time over the six-month period).

⁵ TMI Additional professional personnel of TMI, will be engaged to support this activity including: a Project Coordinator and an additional support person with International Expertise to obtain the participation of international academic institutions (e.g., KAIST).

⁶ Senior Subject Matter Experts (SME) would be engaged to provide professional direction, advice and key connections (see attached Bios).

⁷ Annual TMI Administrative/Support Costs include Accounting and Legal (\$10K annual), Payroll Services (\$4K annual), Board Stipends (\$10K annual), Office Rent & Support (\$10K annual) totaling approximately \$34K. Prorated at 6 months would be \$17K.

Period of Performance & Fee for Services

The period of performance of this agreement is for a six-month period (July 1, 2025, through December 31, 2025). TMI will be paid a total fee of \$275,000. The payment schedule will be two (2) payments of \$137,500, due on July 15, 2025; and September 15, 2025. In addition, TMI will receive reimbursement for all CRC approved expenses.

Either party may cancel this contract within 30 days by written notice. The payment schedule will be pro-rated based on calendar time.

Termination Clause

The Rensselaer County Industrial Development Agency reserves the right to terminate this contract in the event it is found that the certification filed by the Offeror in accordance with New York State Finance Law §139-k was intentionally false or intentionally incomplete. Upon such a finding, the Rensselaer County Industrial Development Agency may exercise its termination right by providing notification to the Offeror in accordance with the notification terms of this contract.

For TMI:

Signed: _____ Date _____

Thomas Triscari, Jr., Ph.D., Executive Director

For CRC:

Accepted: _____ Date _____

Justin Law, Chair, RCIDA Board

Approved as to form: _____ Date: _____

Peter Kehoe, Agency Special Counsel

Key Personnel Bios

DR. THOMAS TRISCARI, JR.

Career Summary: Dr. Thomas Triscari's is a proven leader in identifying and employing advanced technologies and business practices to grow sustainable value to stakeholders in mature existing companies and start-up enterprises alike. He has had successful careers as an innovator and change agent in the United States military, government (federal, state and local levels), industry/business, and academia. Dr. Triscari has experience as an entrepreneur - creating a successful consulting company and practice.

Military Service [1977-1995]: As a career Officer in the United States Air Force (USAF), Dr. Triscari held key technical leadership positions in Air Force research and development organizations. In these positions, he was responsible for advancing and applying emerging technology to national programs in reconnaissance, surveillance and intelligence, as well as command and control systems. Dr. Triscari also completed a research fellowship as a visiting scientist at the Center of Excellence in Command, Control, Communications, and Intelligence at George Mason University, Fairfax, Virginia. He retired from active duty in 1995 at the rank of Lieutenant Colonel. [Military decorations include Meritorious Service Medal (one oak leaf cluster), Commendation Medal (two oak leaf clusters), and Achievement Medal (two oak leaf clusters)]

Academic Experience: Dr Triscari has more than 20 years of experience in academia and has focused on the development and implementation of innovative interdisciplinary, graduate-level curricula at several Universities. Dr Triscari secured more than \$7 Million in research grants. His academic specialization is multidisciplinary, including engineering, operations analysis and innovation management. A few of Dr. Triscari's academic highlights include:

- Air Force Institute of Technology [1984-1989], he designed and implemented a new graduate program in information management. [AFIT's Outstanding Professor Award]
- Dr. Triscari was named the Director of Drexel University's Alfred P. Sloan Center for Asynchronous Learning [1996] and led the implementation of the first completely asynchronous graduate degree.
- At the RPI Lally School of Management and Technology at Rensselaer Polytechnic Institute, Troy, NY [1997-2018], he held positions as the Academic Director of Executive Programs, MBA Program Director and Technology Engineering Commercialization and Entrepreneurship Program. [Darrin Counseling Award -2017]

Public Service: Dr. Triscari continued public service while a faculty member at RPI.

- From 1997 to 2000, Dr. Triscari was a staff member of the House Appropriations Committee Surveys and Investigative Staff focused on technology management.
- From 2000 to 2003, he served as a Research Scientist in Cyber Security and Decision Sciences at the Air Force Research Laboratory. During this time, Dr Triscari is credited with establishing the Griffiss Institute for Information Assurance and securing \$4.5 million in initial funding from the State of New York.

- In 2004-2005, Dr Triscari was awarded an American Association for the Advancement of Science (AAAS) Science and Technology Policy Fellowship at the United States Department of Homeland Security in Washington, DC. Dr. Triscari's focus was on Critical Infrastructure Protection.
- In September 2007, Dr. Triscari began a one-year appointment as the Distinguished Visiting Scholar at LMI Research Institute in McLean, Virginia. His research included Global Energy Security.

Business Experience [1996-present]: Dr. Triscari is the founder and CEO of Information Technology Management (ITM) - a consulting and education company with offices in Troy, New York and Fairfax, Virginia. Clients have included companies and organizations in business, government and academia. Currently, ITM is focused on developing ecosystems to support entrepreneurial companies and innovation districts.

Corporate Boards: SRC, Inc. (Retired 2024) and the New York State Technology Enterprise Corporation (NYSTEC).

MICHAEL HUTCHINSON, LIEUTENANT COLONEL USA (Retired)

Lieutenant Colonel Michael Hutchinson was commissioned as a 2nd Lieutenant of Infantry in May 2003 after graduating from the U.S. Military Academy at West Point. He served as a Rifle Platoon Leader in Ramadi, Iraq in 2004 and Company Executive Officer upon return to the United States. He attended the Special Forces Assessment and Selection Course in 2006, joining the 3rd Special Forces Group and serving at every level from Detachment Commander to Group Deputy Commanding Officer. Throughout this period, he deployed five times in support of Operation Enduring Freedom in Afghanistan and also persistently supported an operation to counter violent extremism across northern Africa.

In May 2017, he was assigned to Headquarters, United States Army Special Operations Command (USASOC) as the Vice Chief of Staff. During this assignment, he deployed to Afghanistan as Military Assistant to the Commanding General, Operation Resolute Support. In January 2020, he returned to USASOC Headquarters to serve in the newly established Force Modernization Center as the Director of Advanced Analytics and Artificial Intelligence. In that capacity, he spearheaded digital modernization efforts including the adoption of cloud-native software development, sensor-based analytics, and workforce training. LTC Hutchinson then served as the commander of the Albany Recruiting Battalion and created several outreach initiatives to provide experiential learning of emerging technology to high school and undergraduate students. He currently serves as the Deputy Commanding Officer, 3rd Special Forces Group where he continues to drive innovation and modernization in the incorporation of space, cyber, and electronic warfare capabilities.

He is a graduate of the Infantry Officer Basic Course, the Mechanized Leader Course, Maneuver Captain's Career Course, Survival, Evasion, Resistance, and Escape Course (SERE) and the Special Forces Qualification Course. He earned a Bachelor of Science Degree in

Arabic and Middle Eastern Studies from West Point and holds a Master of Science in Defense Analysis from the Naval Postgraduate School.

Hutchinson's awards and decorations include the Bronze Star Medal, the Meritorious Service Medal, the Defense Meritorious Service Medal, the Joint Service Commendation Medal, the Army Commendation Medal, the Army Achievement Medal, the Combat Infantryman's Badge, the Special Forces Tab, the Ranger Tab, the Parachutist's Badge, and the Air Assault Badge. He has been awarded the Infantry Regimental Association's Order of Saint Maurice.

TIM CLANCY, J.D.

Tim Clancy is President of Arch Street LLC, a strategic consulting firm in the Washington, DC metro region. Tim has served in senior leadership positions in academia, the private sector, Congress and a federal science agency. He represented the National Science Foundation (NSF) before Congress in the NSF Office of Legislative and Public Affairs. He also served two tours as a professional staff member on the House Science Committee and as a Chief of Staff to Representative Sherwood Boehlert (R-NY) in the House of Representatives.

Tim has managed and conducted research in cyber security and critical infrastructure protection at George Mason University. While at Mason he received grants from the NSF and the Department of Homeland Security (DHS) in the fields of cyber security law, policy and economics and has presented at, and organized major international conferences and workshops on cyber security.

Tim has far-reaching science policy expertise, having directed major Committee hearings in cyber security, energy and academic research and helped shepherd major legislation enacted into law. His legislative accomplishments include the Cyber Security Research and Development Act of 2002 (P.L. 107-305), Title II and Title III of the Homeland Security Act of 2002 (P.L. 107-296) and research provisions of the Energy Policy Act of 2005 (P.L. 109—58). While on Capitol Hill, he helped oversee the creation of the DHS Science and Technology Directorate and the DHS Cybersecurity Division. Tim also acted as chief liaison for Congressman Boehlert to the Department of Defense and particularly the United States Air Force on issues of information technology and cyber security research and development.

He received his J.D. from Western New England University School of Law Springfield, MA where he was a member of the Law Review. Tim also holds a B.A. in Political Science from the College of the Holy Cross in Worcester, MA.

Potential National Security/Technology Subject Matter Experts' Bios

PHILIP CULLOM, Retired U.S. Navy Vice Admiral

A native of Flossmoor, Illinois, Vice Adm. Philip H. Cullom graduated with distinction from the U.S. Naval Academy with a bachelor's degree in physics. He also holds a master's degree in business administration with distinction from Harvard Business School. His career has been marked by service in every combatant command theater of operations; participation in nine named operations supporting U.S. military efforts in the Middle East, Mediterranean, Adriatic, Caribbean and Western Pacific; and six Carrier/Expeditionary Strike Group deployments. Afloat, he commanded the Eisenhower and George Washington Strike Groups, Amphibious Squadron 3, USS Mitscher (DDG 57) and served as chief of staff to Commander, 2nd Fleet/Striking Fleet Atlantic. Other tours included USS Mobile Bay (CG 53), USS Dwight D. Eisenhower (CVN 69), USS Jesse L. Brown (FF 1089) and USS Truxtun (CGN 35).

Ashore, flag assignments included Fleet Readiness and Logistics (N4) deputy chief of naval operations; Energy and Environmental Readiness Division (N45) director; Fleet Readiness Division (N43) director; Strategy & Policy Division (N5SP) director; and Deep Blue director. He served at the White House twice as special assistant to the director, Office of Management & Budget and as director of Defense Policy/Arms Control on the National Security Council. Other Shore tours included: head of Nuclear Officer Programs and Placement (PERS 424/41N); Chief of Naval Operations (CNO) Staffs Strategy and Policy Branch (N513); Joint Staffs Program Budget & Analysis Division (J-8); CNO's Executive panel (OP-ooK); the White House Fellowship Program; and staff positions at Idaho National Engineering Laboratory.

BERT KAMEAALOHA MIZUSAWA, Retired U.S. Army Major General

Bert Kameaaloha Mizusawa is a retired major general in the United States Army, serving in the Army from 1979 to 2015. Mizusawa also served in the United States Senate as a professional staff member and as a Senior Executive in the Pentagon, making him one of only a handful of individuals to serve at flag rank in the military as well as in both the legislative and executive branches. Mizusawa is also an attorney and is admitted to the bars of New York, the District of Columbia, Virginia and the United States Supreme Court.

As a captain, Mizusawa, an Airborne Ranger, served as a paratrooper in Italy with the 1-509th Airborne Battalion Combat Team and commanded the Army's most forward-deployed combat unit, the Joint Security Force, in the Korean DMZ. From 2001 to 2004, Mizusawa was assigned as the first commander of the Army Reserve's new cyber command, the Army Reserve Information Operations Command. In 2005, he commanded the first team deployed to Afghanistan from the Joint Center of Operational Analyses. As a brigadier general, Mizusawa served as the Deputy G3 (Operations) of the U.S. Army Materiel Command, as Deputy to the Commanding General, Multinational Corps-Iraq and as the Deputy Commanding General of the 335th Theater Signal Command. On August 2, 2011 Mizusawa was promoted to major general and assumed the assignment of Deputy Director for Strategic Initiatives, Joint Chiefs of Staff. From 1995 to 1998, Mizusawa was appointed as a Professional Staff Member on the United States Senate Committee on Armed

Services, where he assisted the chairman with oversight of national defense. In 1998, he was appointed as a three-star level Senior Executive in The Pentagon. In early 2020, Mizusawa was appointed as a senior adviser for national security technology and business integration at the Central Intelligence Agency.

ELIAS TOWE, PH.D.

Grobstein Professor of Materials Science and Engineering &
Professor of Electrical and Computer Engineering at Carnegie Mellon University

Elias Towe was educated at the Massachusetts Institute of Technology, where he received the S.B., S.M., and Ph.D. degrees from the Department of Electrical Engineering and Computer Science, where he was also a Vinton Hayes Fellow. Prior to joining the faculty at Carnegie Mellon in 2001, he was, at the same time, a Professor of Electrical and Computer Engineering at the University of Virginia and a Program Manager at the Defense Advanced Research Projects Agency. Towe has received several awards and honors. He is currently a professor of Electrical and Computer Engineering, and Materials Science and Engineering.

Towe's group pursues research in basic optical and quantum phenomena in materials for applications in novel photonic devices that enable a new generation of information processing systems for communication, computation, and sensing. The group is also interested in understanding new pathways and fundamental mechanisms for solar energy conversion devices. The current focus is on the use of phenomena (such as three-dimensional quantum-confinement effects in nanometer-scale structures) in the study of novel devices. Examples include quantum-dot infrared detectors and imaging sensors, electrically-pumped photonic crystal micro-cavity lasers with quantum-dot active regions, multi-spectral solar energy conversion devices, plasmonic bio-sensors, and fluorescence bio-sensing devices.