

**RESOLUTION AUTHORIZING EXECUTION OF CONTRACT FOR SERVICES
WITH TECHNOLOGY MANAGEMENT INSTITUTE FOR THE PERIOD
SEPTEMBER 1, 2026 THROUGH FEBRUARY 28, 2027**

WHEREAS, Technology Management Institute, Inc. (TMI) has proposed to perform for the Rensselaer County Capital Resource Corporation (the “Corporation”) certain consultant services described in the attached proposal, for the period September 1, 2026 through February 28, 2027, which services include serving as the primary consultant supporting Rensselaer County Capital Resource Corporation Quantum Commercialization Eco-System efforts-as a strategic advisor, project coordinator and ecosystem development partner. Also, support the CRC in the development and submission of a proposal, as well as the initial implementation of the Quantum Technology Commercialization Hub initiative, as outlined in the attached proposal; and

WHEREAS, the CRC is desirous of obtaining the services described in said proposal in order to help further the Rensselaer County Capital Resource Corporation establish a quantum ecosystem in Rensselaer County for technology-based economic development, and

WHEREAS, the CRC has had a long and satisfactory working relationship with TMI and finds TMI to be uniquely suited to provide the desired services, and

WHEREAS it is in the best interest of the CRC to follow Section 4 of the Corporation’s Procurement Policy in the procurement of the desired services, which are in the nature of professional services; and

WHEREAS, in determining to follow the procedures set forth in Section 4 of the Corporation’s Procurement Policy the CRC has considered the guidelines set forth in the second paragraph of Section 4(A) for making such a determination, and

WHEREAS, the engagement of TMI for the provision of the services described in the attached proposal would be in accord with the Corporation’s criteria for procuring such services as set forth in the first paragraph of Section 4(A) of the Corporation’s Procurement Policy, to wit: accountability, reliability, responsibility, skill, non-conflict of interests, reputation, education and training, judgment, integrity, continuity of service and moral worth, with some particular emphasis on the component of continuity of service; now, therefore, be it

RESOLVED, that the CRC is hereby authorized to execute a contract with TMI in substantial accord with the attached proposal, subject to approval as to form by CRC Counsel or Special Counsel, with payment to TMI for the services described in said contract in the sum of One Hundred Seventy Thousand Dollars, payable pursuant to the schedule set forth in said proposal.

Resolution ADOPTED by the following vote:

Ayes: 4

Nays: 0

Abstain: 0

September 10, 2026

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 members of the Corporation, including the Resolution contained therein, held on September 10, 2026 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 members 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 Corporation this 10th day of September, 2026.



(Assistant) Secretary

(SEAL)

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

August 31, 2026

Project Overview

Technology Management Institute, Inc. (TMI), a Not-For-Profit 501-C-3 Corporation¹, proposes to be engaged by the Rensselaer County (RC) Capital Resource Corporation (CRC) to serve as a consultant for supporting RCCRC Quantum Commercialization Eco-System efforts – as a strategic advisor, project coordinator and ecosystem development partner. Also, TMI will support CRC in the development and submission of a proposal, as well as the initial implementation of the Quantum Technology Commercialization Hub initiative.²

Why TMI? TMI Success with RCCRC and RPI on Technology Commercialization

In December 2024, the Rensselaer County Legislature passed the Rensselaer County Executive's proposed 2025 Budget, providing \$8M in funding for the RPI-lead SCALE Rensselaer initiative – a technology accelerator modeled after the successful “Engine” at MIT³.

In early January 2025, the Rensselaer County Industrial Development Agency (RCIDA), and subsequently the Rensselaer County Capital Resource Corporation (RCCRC) received \$8M in funding for the SCALE Rensselaer technology accelerator to be centered in the RCIDA's Quackenbush building in downtown Troy, NY (walking distance from the main RPI campus). TMI supported RCIDA/CRC in securing this funding.

In August 2025, RPI provides a Letter of Collaboration to TMI to participate in a proposed “center for applied research and commercialization in quantum information science”. (see attached RPI Letter, August 6, 2025, Collaboration with the Technology Management Institute (TMI)) In August 2025, BQP and TMI executed a Memorandum of Understanding (MOU) to collaborate to further the Rensselaer County Capital Resource Corporation's (and Rensselaer County Industrial Development Agency) initiative to establish a *quantum ecosystem in Rensselaer County for technology-based economic development*.

¹ TMI mission and purpose are 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]

² See this link for the announcement: <https://esd.ny.gov/esd-media-center/press-releases/governor-hochul-announced-launch-selection-process-regional-quantum> and for the RFP: <https://esd.ny.gov/sites/default/files/media/document/Quantum-Technology-Commercialization-Hubs-RFP.pdf>

³ see a brief video describing the MIT Engine Accelerator at <https://www.youtube.com/watch?v=32GcC5y1mRw>

In the fall 2025, a pilot educational program focusing on “workforce development” was launched with RPI by having BQP personnel located within the Quackenbush building with RPI and HVCC students participating in this educational activity. [<https://wnyt.com/top-stories/new-pilot-aims-to-fill-tech-education-gap-for-quantum-workforce-in-troy-and-beyond/>]

All the above activities involved TMI.

Given the strategic importance and complexity of this initiative, TMI can provide dedicated advisory and operational support to complement CRC’s existing capabilities and assist the CRC Board with oversight, strategic assessment and budgetary decision-making. TMI brings extensive experience in this arena [see <https://technologymanagementinstitute.com/>].

Objective and Scope of Services

TMI’s objective is not simply to assist in preparing an RFP response, but to help establish a sustainable quantum technology commercialization ecosystem in Rensselaer County which attracts companies, creates high-value employment, leverages RPI’s research capabilities and positions the Quackenbush Building as a regional center for Quantum Technology Commercialization.

Over the 6-month period, September 1, 2026, February 28, 2027, TMI will provide resources and strategic support to the CRC to execute the following critical aspects of the CRC in planning and implementing a “Quantum Technology Commercialization Hub” initiative within the Quackenbush Building:

- I. Support planning and developing Quantum Commercialization activities within the Quackenbush building, in coordination with the SCALE Rensselaer Program Manager (resident in the Quackenbush Building). Activities include supporting the preparation of the response to the NYS RFP for the Quantum Technology Commercialization Hub – due on October 14, 2026.**
- II. Continue to support the development of the local Quantum Hub “Eco-System” within the Quackenbush Building by recruiting Start-Up Quantum Companies and partnering companies. Such activities should and will continue beyond the October 14 due date of the RFP.**
- III. Provide administrative and management support to the CRC in promoting and accomplishing Quantum Commercialization activities between Rensselaer SCALE and the CRC.**
- IV. Identify potential funding opportunities to support the SCALE Rensselaer Initiatives and related CRC 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 to support Quantum Technology Commercialization:

- **Task #1 SCALE Rensselaer Collaboration:** *Collaborate and coordinate with the RPI-led SCALE Rensselaer, to Identify and Energize a Core Team of Partners to support the local (Rensselaer County Centric) Quantum Technology Commercialization Eco-System.*
- **Task #2 Internal Engagement:** *Sustain Engagement with other “Quackenbush” Partners and Build Buy-In [Center of Gravity; NYSTEC].*
- **Task #3 External Engagement:** *Engage other potential Academic, Industry, and Federal Government Partners and Build Buy-In [e.g., HVCC, UofA, AFRL]*
- **Task #4 Other Related Quantum Activities:** *Identify related and adjacent technology initiatives (e.g., “quantum leap”) and pursue funding opportunities (local, State, Federal, Private sector)*
- **Task #5 CRC Board Reporting:** *Provide regular updates and briefings on project activities and milestones as requested by the CRC Board.*

Major Deliverables:

- ***Milestone #1: NYS ESD Quantum Technology Commercialization Hub RFP Response by October 14, 2026***
 - *Core Partnership Development Structure Relationships by October 2, 2026*
 - *Start-Up Company Recruitment and Offices in Quackenbush (Goal is 3 by December 1, 2026)*
 - *RCCRC and SCALE Rensselaer engagement with NY Creates and industry partners (by October 4, 2026)*
 - *Federal and other Academic Engagement by October 2, 2026*
 - *Funding Strategy between RCCRC and SCALE Rensselaer*
- ***Milestone #2: Post-Submission Ecosystem Development, Partner Recruitment and Implementation Planning.***
- ***Milestone #3: Monthly CRC Board Briefings***

CRC and TMI agree to have TMI

- 1) Actively manage and support the CRC Quantum Technology Commercialization Hub and Ecosystem 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 the CRC or IDA and will not act as the representative of the CRC or IDA in support or defeat of any legislation to the New York State Legislature.

Cost/Budget Estimate Breakout [September 1, 2026 – February 28, 2027]

TMI Leadership/Management Team⁴: \$60,000
Independent Contractors/Consultants⁵: \$40,000
TMI Support Team⁶: \$30,000
Advisors/Consultant⁷ (Subject-Matter-Experts): \$15,000
TMI Administration/Support⁸: \$15,000
Travel: \$10,000

TOTAL: \$170,000

Period of Performance & Fee for Services

The period of performance of this agreement is for a six-month period (September 1, 2026, through February 28, 2027). TMI will be paid a total fee of \$170,000. The payment schedule will be two (2) payments of \$85,000, due on October 1, 2026; and December 15, 2026. In addition, TMI will receive reimbursement for all CRC approved expenses.

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

⁵ Independent consultants such as Tim Clancy would be engaged by TMI to support primarily Task #3 (External Engagement) and #4 (other related Quantum Activities).

⁶ 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.

⁷ Senior Subject Matter Experts (SME) would be engaged to provide professional direction, advice and key connections (see attached Bios).

⁸ 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.

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



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Troy, NY 12180-3590

Jonathan S. Dordick, Ph.D.
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Institute Professor
Department of Chemical and Biological Engineering
Department of Biological Sciences
Center for Biotechnology & Interdisciplinary Studies

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August 6, 2025

Dr. Thomas Triscari, Jr.
Executive Director
Technology Management Institute Inc.
333 Broadway
Troy, NY 12180

Re: Collaboration with the Technology Management Institute (TMI)

Dear Dr. Triscari:

Rensselaer Polytechnic Institute (RPI) affirms its support for the overarching goals of the Technology Management Institute (TMI), which aims to advance translational research, regional innovation, and public-private-academic collaboration in New York's Capital Region and beyond. We welcome the opportunity to explore ways we might engage as a research collaborator and contribute institutional expertise in areas aligned with our core strengths.

RPI values initiatives that enhance translational research and entrepreneurship, particularly those that foster meaningful engagement between universities, industry, and government. We are open to continued dialogue regarding how TMI might contribute to these goals and how RPI may support such efforts—whether through research partnerships, programmatic input, or other mutually beneficial collaborations.

TMI's planned location in the Quackenbush Building in Troy offers natural proximity to key regional innovation assets, including Scale.Rensselaer, the high-tech startup accelerator initiative supported by Rensselaer County, RPI, and other stakeholders. This initiative aligns with our commitment to fostering innovation and supporting the growth of high-tech startups in the region. We appreciate the opportunity to remain engaged with this evolving ecosystem and to identify constructive intersections with RPI's research enterprise, academic mission, and broader innovation agenda.

As envisioned, TMI will include the Quantum Computing Institute of America (QCI), a proposed center for applied research and commercialization in quantum information science. RPI supports QCI's mission to host a series of economically significant quantum projects in Rensselaer County, support start-up formation, and facilitate global partnerships that attract federal and state programmatic and appropriations support. These aims are consistent with RPI's own strengths in quantum computing and translational research.

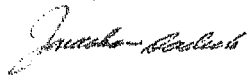
RPI is home to the IBM Quantum System One—the first of its kind on a U.S. university campus—and the Curtis Priem Quantum Constellation, a multidisciplinary, faculty-endowed research initiative exploring real-world applications in quantum algorithms, chemistry, biology, materials science, and machine learning. The quantum computing program falls within our newly formed Future of Computing Institute (FOCI), which also includes the AiMOS supercomputer, a top-tier academic AI-optimized

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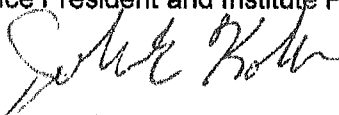
system developed in partnership with IBM and New York State, and an expanding cohort of quantum-focused faculty across physics, computer science, engineering, and mathematics.

We believe that TMI can play an important role in strengthening the Capital Region's innovation infrastructure and advancing its economic development goals. RPI applauds the launch of TMI—and the potential it has to positively impact our community—and commits to exploring collaborations with TMI that align with our research, translational, and innovation missions.

Sincerely,



Jonathan S. Dordick, Ph.D.
Vice President and Institute Professor



John E. Kolb, P.E.
Vice President and Head of RPI Future of Computing Institute (FOCI)

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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 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 Chairman of the New York State Technology Enterprise Corporation (NYSTEC).

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.