

APPROVED MINUTES

ONE HUNDRED THIRTY FOURTH MEETING

of the

BOARD OF DIRECTORS

of the

MASSACHUSETTS TECHNOLOGY PARK CORPORATION

December 11, 2024
2 Center Plaza, Suite 200, Boston, MA
and by Zoom Videoconference

The One Hundred Thirty Fourth Meeting of the Board of Directors of the Massachusetts Technology Park Corporation (“Mass Tech Collaborative” or “Mass Tech”) was held on December 11, 2024, at 2 Center Plaza, Suite 200, Boston, MA, and by Zoom videoconference, pursuant to notice duly given to the Directors and publicly posted on the Mass Tech Collaborative website with corresponding notice provided to the Office of the Secretary of State and the Executive Office for Administration and Finance.

The following members of the Mass Tech Collaborative Board of Directors were present and participated: Secretary of Economic Development Yvonne Hao, Beth Boland, Tye Brady, Julie Chen, Ernesto DiGiambattista, Paige Fetzer-Borelli, Pam Reeve, Jeffrey Stein, Alexander Stolyarov, Alok Tayi, Bodgan Vernescu, Nate Walton, Richard Lester, Joseph Dorant, Bran Shim, and Maeghan Silverberg Welford.

The following members of the Mass Tech Collaborative staff were present: Carolyn Kirk, Michael Baldino, Keely Benson, Lily Fitzgerald, Mark Halfman, Jody Jones, Pat Larkin, Ben Linville-Engler, Marc Leonetti, Dana Nolfe, John Petrozzelli, Jennifer Saubermann, Briana Wehrs, Kevin O’Brien, Rachel Stachowiak, John Wetzels, Sharron Wall, and Paula Foley.

Also present was Sarah Stanton, Undersecretary for the Executive Office of Economic Development.

Secretary Hao observed the presence of quorum and called the meeting of the Mass Tech Board of Directors to order at 2:02 p.m.

Agenda Item I Approval of Minutes (motion item)

After a period of brief discussion and upon a motion duly made and seconded, it was VOTED by roll call vote, with Mr. Shim abstaining:

The Board of Directors of the Massachusetts Technology Park Corporation, acting pursuant to section three of Chapter Forty J of the General Laws of the

Commonwealth, hereby adopts the Draft Minutes of the One Hundred Thirty Third Meeting of the Board of Directors, held on October 16, 2024, at 2 Center Plaza, Suite 200, Boston, MA, and by Zoom videoconference, as the formal Minutes thereof.

Agenda Item II Report of the Mass Tech Collaborative Board Chair

Secretary Hao began the meeting by providing an update on the passage and signing of the Economic Development bill, the Mass Leads Act (the “Act”). Secretary Hao indicated that, following passage of the Act by the Legislature, Governor Healey convened the formal signing ceremony the previous day, officially kicking off the numerous initiatives contained within the Act. Secretary Hao explained that \$1 billion in the Act was designated for Life Sciences initiatives; \$1 billion for Climate Tech; and \$1 billion for other initiatives, including Alternative Intelligence (“AI”) programs, with which Mr. Larkin is already deeply involved as part of Governor Healey’s AI Task Force. Secretary Hao also explained that the Act includes funding for programs such as tech hubs, quantum, and robotics, as well as initiatives relating to tourism and agriculture. Secretary Hao indicated that the Act will have positive effects throughout the Commonwealth for many years to come, and that given the upcoming changes in the federal administration, passage of the Act provides a level of control and certainty over the future of Mass Tech (and the other state quasi-public state authorities) for the next few years. Secretary Hao closed her report by congratulating Ms. Lily Fitzgerald on her recent promotion to Director of Mass Tech’s Center for Advanced Manufacturing (“CAM”) and then turned to Ms. Kirk for her report.

Agenda Item III Report of the Mass Tech Collaborative Chief Executive Officer

Ms. Kirk also congratulated Ms. Fitzgerald on her new role and indicated that Ms. Fitzgerald has her full support as CAM Director. Ms. Kirk then welcomed Mr. Bran Shim to his first meeting of the Mass Tech Board of Directors as the designee for the Secretary of the Executive Office for Administration and Finance. Mr. Shim provided a brief summary of his background as head of the budget team for the Executive Office for Administration and Finance, and discussed his involvement on the Boards of several other quasi-public authorities in Massachusetts, including Mass Ventures and Massachusetts Life Sciences Center. Ms. Kirk then provided the Board with a series of statistical highlights from 2024, including that there was, among other things, a twenty-four percent (24%) increase in Mass Tech head count in 2024, more than 5,000 media mentions over the course of the year, and \$121 million in Board-approved broadband awards. Ms. Kirk concluded her report by thanking all the Mass Tech employees for their hard work throughout the year and also thanked the Board members for their continuing engagement.

Mr. Brady joined the meeting at 2:15 p.m.

Agenda Item IV Innovation Institute – Collaborative Research & Development Grant Program – University of Massachusetts Amherst Multi-Scale Patterning for Emerging Technologies Facility (motion item)

Mr. Larkin then took the floor, along with Ms. Sharron Wall, to discuss the next agenda item. Mr. Larkin explained that this \$4.9 million grant to the University of Massachusetts Amherst (“UMA”) will fund a project to establish an open-access facility with prototyping capabilities and a new e-beam lithography tool enabling research and development collaborations on and off the UMA

campus for quantum technologies, electromagnetic technologies, and other applications. Ms. Wall explained that the funding will be allocated over a three (3) year period, taking into account the time needed for purchasing and ordering of the necessary equipment, and making the facility ready for equipment installation. The funding will be provided to UMA, explained Ms. Wall, on a cost-reimbursement basis, matched by UMA.

After a brief period of discussion and upon a motion duly made and seconded, it was VOTED by roll call vote, with Ms. Boland abstaining:

The Board of Directors of the Massachusetts Technology Park Corporation (“Mass Tech Collaborative”), acting pursuant to the authority delegated under Chapter 40J of the General Laws of the Commonwealth, does hereby authorize a grant award under the Collaborative Research Matching Grant Program (RFP 2022-JAII-04), in an amount not to exceed \$4,993,230 to the University of Massachusetts Amherst to support the establishment of a state-of-the-art Multi-Scale Patterning for Emerging Technologies facility, as presented. The grant award is to be funded through the Scientific and Technology Research and Development Matching Grant Fund (M.G.L. Chpt. 40J, Sec. 4G), and is subject to the execution of a grant agreement in a form and with terms approved by Mass Tech Collaborative’s Chief Executive Officer.

Agenda Item V Center for Advanced Manufacturing – MA Manufacturing Innovation Initiative (“M2I2”): Cala Systems; Metis Design; and Triton Systems (motion item)

Ms. Kirk than asked Ms. Fitzgerald to discuss the next agenda item. Given the comprehensive pre-reading materials provided to the Board, Ms. Fitzgerald suggested that she briefly summarize each of the recommended awards, focusing on what stood out the most with these three (3) finalists. Ms. Fitzgerald then provided an overview of CAM’s selection criteria for M2I2 awards, and explained that the first awardee, Cala Systems, is expected to have a high number of jobs created from the development of its new assembly line for high efficiency heat pump water heaters, as well as significant collaboration with Middlesex Community College and the Greater Lawrence community. The second awardee, Metis Design, explained Ms. Fitzgerald, is a women-led business with a high market potential for its modern methods of laminate composite manufacturing. Lastly, Ms. Fitzgerald explained that the third awardee, Triton Systems, is a mature company with a large expected return on investment for the funded establishment of a cold spray large area additive manufacturing system in Chelmsford.

After a brief period of discussion and upon a motion duly made and seconded, it was unanimously and without abstention VOTED by roll call vote:

The Board of Directors of the Massachusetts Technology Park Corporation (“Mass Tech Collaborative”), acting pursuant to the authority delegated under Chapter 40J of the General Laws of the Commonwealth, does hereby authorize the following grant awards to be funded through the Massachusetts Manufacturing Innovation Initiative (“M2I2”), item 7002-8047 of Chapter 2

of the Acts of 2023, to the Massachusetts Manufacturing Extension Partnership (“MassMEP”) for the following projects:

- **for Cala Systems in an amount not to exceed \$595,163 to support the construction of an assembly line for their intelligent, high-efficiency heat pump water heaters;**
- **for Metis Design Corporation, or a company established by Metis Design Corporation, in an amount not to exceed \$999,630 to support the buildout of its composite manufacturing line; and**
- **for Triton Systems in an amount not to exceed \$484,988 to support the establishment of a cold spray large area additive manufacturing facility.**

The grant awards are subject to the execution of a grant agreement in a form and with terms approved by Mass Tech Collaborative's Chief Executive Officer.

Ms. Silverberg Welford joined the meeting at 2:45 p.m.

Agenda Item VI CHIPS & Science Update

Ms. Kirk then turned to Mr. Linville-Engler, MassTech’s Deputy Director and Chief Investment Strategist, for a CHIPS & Science update. Mr. Linville-Engler began by explaining that modern American industrial policy focuses on three (3) major technology areas: (1) Emerging Technologies, such as advanced communications and energy generation and storage; (2) Defense Technologies, such as quantum science and hypersonics; and (3) Advanced Manufacturing Technologies, such as recycling and biofabrication. Mr. Linville-Engler then explained that the CHIPS & Science Act is a \$250+ billion federal undertaking designed to incentivize U.S. semiconductor manufacturing and to support science, technology, innovation, and STEM initiatives beyond discovery. According to Mr. Linville-Engler, MassTech has supported pursuits upwards of \$2 billion in total project costs contingent on federal awards. Mr. Linville-Engler went on to explain that CHIPS “wins” for Mass Tech include the Microelectronics Commons Award funding Mass Tech’s Northeast Microelectronic Coalition (“NEMC”) Hub, and Northeastern University’s NTIA’s Public Wireless Supply Chain Innovation Fund Award, which MassTech provided supporting funds for.

Mr. Linville-Engler then asked Mr. Mark Halfman, Director of the NEMC Hub, to provide an update on Hub activities. Mr. Halfman explained that the NEMC Hub currently consists of more than 235 organizations and 800 individuals, with 178 of its members designated as non-traditional defense contractors. Mr. Halfman then turned to a discussion of NSTXL’s 2024 Call for Projects, from which the Hub received \$38 million in awards for six (6) projects. Mr. Halfman stated that the NEMC Hub received the most projects awarded, the most dollars awarded, covering the most diverse set of critical technology execution areas, across all of the eight (8) microelectronics hubs nationwide. In conclusion, Mr. Halfman indicated that the sustainability of the NEMC Hub beyond federal funding is important, and future Hub activities include engaging with other Northeast states beyond Massachusetts on co-investment aligned with economic development priorities, and deepening of the Hub’s connection to other areas of the Northeast ecosystem enabled by microelectronics such as healthcare, life sciences, robotics, and advanced manufacturing.

Agenda Item VII Discussion – 2025 Planning

Rounding out the meeting, Ms. Kirk asked Ms. Jody Jones, Program Executive for the Mass Broadband Institute (“MBI”), to discuss how the upcoming change in administration at the federal level could affect MBI, given that funding for MBI’s programs comes primarily from federal sources. Ms. Jones acknowledged that MBI’s goal to become the first, or one of the first, states to reach 100% broadband coverage relies on \$300 million in federal funding through NTIA and the U.S. Treasury. This funding, Ms. Jones explained, is reimbursement-based, and as such, is not currently in MassTech’s possession. Ms. Jones then discussed several key players in the new administration that will affect telecommunications policy, such as the new incoming Chair of the Federal Communications Commission Brendan Carr, the new incoming Commerce Secretary Howard Latnick, and Vice President Elect J.D. Vance. Ms. Jones confirmed that the new administration may seek to implement program changes that could affect MBI’s ability to reach its goals, but that MBI will continue to work hard in the interim to finish the job.

Secretary Hao noted that broadband has traditionally been a bipartisan issue and hoped it remains so. Secretary Hao then encouraged MBI, and other divisions that may be affected by the change in administration, to remain optimistic and collaborative with other states. Discussion then ensued among Board members as to other possible effects and changes resulting from the incoming administration. Secretary Hao concluded the meeting by thanking the Board for its input and engagement throughout the year.

There being no other business to discuss, Secretary Hao adjourned the meeting at 3:30 p.m.

A TRUE COPY ATTEST: (Secretary)

DATE:

Materials and Exhibits Used at this Meeting:

1. Draft Minutes for the October 16, 2024, Meeting of the Mass Tech Board of Directors (motion item)
2. Innovation Institute – Collaborative Research & Development Grant Program – University of Massachusetts Amherst Multi-Scale Patterning for Emerging Technologies Facility (motion item)
3. Center for Advanced Manufacturing – MA Manufacturing Innovation Initiative (M2I2): Cala Systems; Metis Design; and Triton Systems (motion item)
4. CHIPS & Science Update (presentation)