

**RESOLUTION AUTHORIZING TMI TO ENGAGE WITH BQP
IN A PROJECT TO BRING QUANTUM SKILLS AND TOOLS
TO OUR LOCAL COLLEGE STUDENTS**

WHEREAS, the Rensselaer County Capital Resource Corporation (the CRC) acknowledges the importance and potential of Quantum Computing, which is widely recognized as a groundbreaking technology poised to disrupt multiple industries, but the CRC also recognizes that its practical, large-scale commercial applications remain under active development; and

WHEREAS, the CRC also recognizes that *quantum-inspired optimization* techniques have emerged as powerful, near-term solutions capable of addressing highly complex, combinatorial optimization problems that traditional computational methods find intractable. These problems frequently arise in critical business domains such as supply chain optimization, strategic resource allocation, portfolio management, and operational planning—areas where even marginal improvements can translate into substantial economic impact; and

WHEREAS, the CRC has an opportunity to leverage proprietary quantum-inspired optimization software developed by **Beyond Quantum Possibilities (BQP)**—a leading quantum technology startup with origins at Rensselaer Polytechnic Institute whereby students will engage with state-of-the-art algorithmic frameworks designed to efficiently solve “NP-hard problems” that resist conventional computational approaches by developing and delivering a “pilot course” tailored for undergraduate business majors with a solid foundation in software applications who are ready to extend their analytical capabilities into more sophisticated and challenging problem spaces; and

WHEREAS, the curriculum will emphasize hands-on problem-solving, guiding students through the formulation, modeling, and solution of real-world optimization challenges and, importantly, no prior expertise in quantum mechanics or advanced physics will be required; instead, the course will focus on practical methodologies that abstract underlying quantum principles into applicable business tools; and, mentorship from BQP’s industry experts will provide unique insights into the intersection of quantum computing, optimization theory, and business applications, equipping students with a competitive edge in a rapidly evolving technological landscape.

WHEREAS, TMI is prepared to engage with BQP, on behalf of the CRC, to accomplish the foregoing project, which, it is anticipated, will generate great interest among students at Rensselaer Polytechnic Institute and at Hudson Valley Community College, the target audiences for the pilot program; and

WHEREAS, the anticipated discounted cost for the necessary course instructor and licensing and related costs for the project will be in the range of \$50,000.00 now, therefore, be it

RESOLVED, that the CRC does approve the above-described project and does authorize payment to TMI of \$50,000.00 in furtherance of the proposed project, as further detailed in the attached documents.

Resolution ADOPTED by the following vote:

Ayes: 4

Nays: 0

Abstain: 0

August 14, 2025

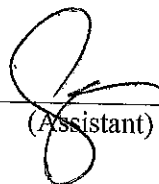
STATE OF NEW YORK)
) SS.:
COUNTY OF RENSSELAER)

I, the undersigned (Assistant) Secretary of Rensselaer County Industrial Development Agency (the "Agency"), DO HEREBY CERTIFY that I have compared the foregoing annexed extract of the minutes of the meeting of the members of the Agency, including the Resolution contained therein, held on August 14, 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 Agency 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 Agency 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 14th day of August, 2025.



(Assistant) Secretary

(SEAL)