HorizonX

Program Guide 2026

In collaboration with **MIT xPro**

Like an axolotl's remarkable ability to regenerate and adapt, education empowers you to continuously grow, evolve, and transform, ensuring you thrive in an ever-changing world



The Axolotl

https://learn-xpro.mit.edu/horizonx

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HORIZONX

With technology accelerating at an unprecedented pace, technical professionals are often best poised to turn challenges into opportunities within their organizations. In order to drive this change, a set of essential skills will be needed.

The collaboration between HorizonX & MIT xPRO brings access to MIT's proven approach to leadership. Engaging with these courses, you will gain the framework and processes to:

- Develop a richer understanding of leadership and change management, using the three lenses: strategy, culture, and politics
- Discern big problems, spot opportunities, and enable teams to collectively solve them through MIT's problem-lead leadership approach
- Apply a toolkit of techniques to start or advance your own leadership journey

As a strong advocate for continuous learning, I believe that with technology accelerating at an unprecedented pace, technical professionals are uniquely positioned to turn challenges into opportunities, and acquiring essential skills is crucial to driving this transformation within organizations.

strong advocate for continuous learning



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HORIZONX

Steve Suarez
HorizonX
Fonder & CEO

HorizonX



MIT xPRO Online Catalog:

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HORIZONX

Empower Your Executives with MIT xPRO

Unlock unlimited access to a world-class catalog of cutting-edge courses with MIT xPRO all-you-can-learn model, designed to provide unparalleled flexibility for both individuals and organizations. Equip your executives with the tools they need for continuous learning and career advancement, ensuring they stay at the forefront of innovation and industry trends. Investing in their development not only enhances individual skill sets but also drives long-term benefits for your organization through improved leadership, strategic thinking, and adaptability in an ever-evolving business landscape.

LEARN MORE

HOW YOU WILL LEARN

LEARN BY DOING

Practice processes and methods through simulations, assessments, case studies and tools, including the IBM Q experience.

LEARN FROM OTHERS

Connect with an international community of professionals while working on projects based in real-world examples.

LEARN ON DEMAND

Access all of the content online and watch videos on the go.

REFLECT AND APPLY

Bring your new skills to your organization, through examples from technical work environments and ample prompts for reflection.

DEMONSTRATE YOUR SUCCESS

Earn a Professional Certificate and 4.0 Continuing Education Units (CEUs)

LEARN FROM THE BEST

Gain insights from MIT faculty and industry experts and connect with your course team and faculty over discussion forums and a live webinar.



QUANTUM Technologies

The U.N. General Assembly designated 2025 the International Year of Quantum. With that, we expect interest in quantum technology to soar, and we at HorizonX want to ensure you are well-prepared to take advantage of this game-changing innovation.

HorizonX is there to be your trusted partner to help with:

- Quantum Strategy Development: Ensures your organization is prepared to leverage quantum advancements and gain a competitive edge.
- Mobilizing for Quantum: Facilitates seamless integration and adaptation to quantum technologies within your existing infrastructure.
- Post-quantum cryptography (PQC) Protection secures your data against future quantum threats, ensuring compliance and maintaining trust.
- Workforce Upskilling through Our Quantum Literacy Programme: Empowers your employees with the knowledge to drive innovation and keeps your organization attractive to top talent.



Quantum Computing Fundamentals



WHAT YOU WILL LEARN

Discover the business and technical implications of the new frontier in computing and how you can apply them to your organization with this two-course program from MIT xPRO.

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Gain proficiency with the engineering requirements for implementing quantum vs. classical algorithms.

Familiarize yourself with scientific limits faced by quantum algorithms for chemistry and optimization.

Understand engineering challenges currently faced by developers of real quantum computers.

Describe one substantial difference between quantum and classical computation.

Assess at least one potential business application for quantum computation.

Become comfortable with the mathematical description of quantum states and basic quantum operations.

Evaluate one key technology requirement for quantum computers to be able to function properly.

Summarize the technology requirements for quantum computers to be able to run realistically large quantum algorithms.

Discern potential performance gains enabled by quantum algorithms, over classical algorithms, for cybersecurity, chemistry, and optimization.

MIT FACULTY & INDUSTRY EXPERTS



Isaac Chuang

Professor of Physics, Professor of Electrical Engineering, Senior Associate Dean of Digital



William Oliver

Henry Ellis Warren (1894) Professor, Professor of Electrical Engineering and Computer



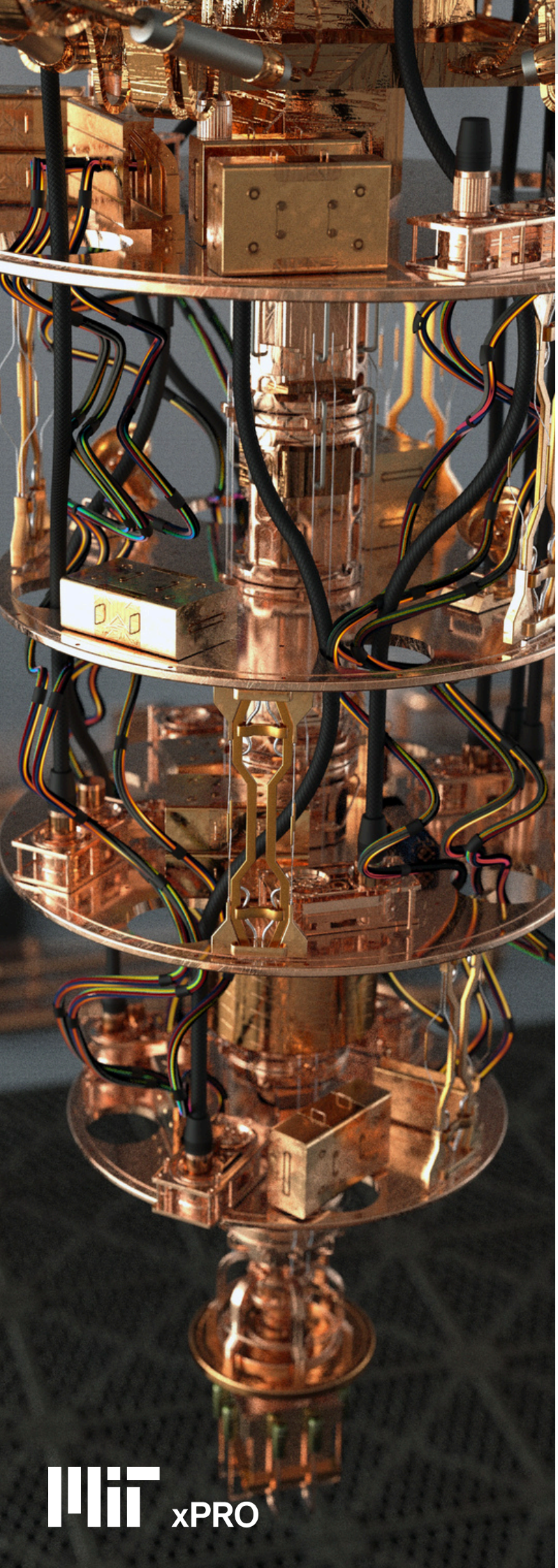
Peter Shor

Morss Professor of Applied Mathematics, Applied Mathematics Committee Chair,



Aram Harrow

Associate Professor of Physics at MIT





"Having quantum-smart people on your team is critical to making this determination and taking the next steps,"

$1,500

Quantum Computing: Strategy & Impact

6 Hours

$2,500

Quantum Computing Fundamentals

8 Weeks

$2,500

Quantum Computing Realities

8 Weeks

https://learn-xpro.mit.edu/horizonx



Quantum Computing: Strategy and Impact

This 6 -hour online course from MIT xPRO offers a clear, accessible introduction to the core concepts of quantum computing and the current state of the field. You'll explore how quantum technologies differ from classical ones, learn about leading hardware platforms and cryptographic implications, and consider how quantum may influence industries and decision-making in the years ahead.

LEARN MORE



Introduction to Quantum Computing

Learn the history and implications of quantum computing vs. classical computation. Assess applications of quantum computing and get hands on experience by putting a simple quantum algorithm into practice using the IBM Q Experience.

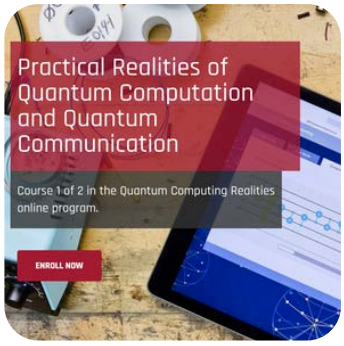
LEARN MORE



Quantum Algorithms for Cybersecurity, Chemistry, and Optimization

Explore the potential of quantum computing with regards to cybersecurity, chemistry, and optimization. Get a front row seat to demonstrations and simulations of quantum algorithms with multiple real-world case studies.

LEARN MORE



Practical Realities of Quantum Computation and Quantum Communication

Explore the practical realities of quantum computing, including its ability to help accelerate classical computers. Learners will take a deep dive into quantum noise both characterizing and benchmarking using the IBM Q Experience.

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Requirements for Large-Scale Universal Quantum Computation

Explore the concepts of quantum error correction, the threshold for practical, fault-tolerant quantum computation, and models of quantum computation beyond quantum circuits and use the IBM Q Experience in an assessment exercise.

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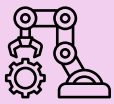
#	Focus	Program	Class	Time Commitment	Duration	CEUs	Price
1	**Quantum Computing** 	Quantum Computing: Strategy and Impact		10 hours	4 weeks	1	$1,500
2		Quantum Computing Fundamentals $2,500	Introduction to Quantum Computing	4-6 hours per week	4 weeks	2	$1,600
3			Quantum Algorithms for Cybersecurity, Chemistry, and Optimization	4-6 hours per week	4 weeks	2	$1,600
4		Quantum Computing Realities $2,500	Practical Realities of Quantum Computation and Quantum Communication	3-5 hours per week	4 weeks	2	$1,600
5			Requirements for Large-Scale Universal Quantum Computation	3-5 hours per week	4 weeks	2.5	$1,600
6	**Artificial Intelligence and Machine Learning** 	Deploying AI for Strategic Impact		4-7 hours per week	9 Weeks	4	$3,950
7		Machine Learning, Modeling, and Simulation: Engineering Problem-	Machine Learning, Modeling, and Simulation Principles	4-6 hours per week	5 weeks	2.5	$1,650
8			Applying Machine Learning to Engineering and Science	4-6 hours per week	5 weeks	2.5	$1,650
9	**Engineering** 	Architecture and Systems Engineering: Models and Methods to Manage Complex Systems $4150	Architecture of Complex Systems	4-6 hours per week	5 weeks	2.5	$1,250
10			Models in Engineering	4-6 hours per week	4 weeks	2	$1,250
11			Model-Based Systems Engineering: Documentation and Analysis	4-6 hours per week	5 weeks	2.5	$1,250
12			Quantitative Methods in Systems Engineering	4-6 hours per week	4 weeks	2	$1,250
13	**Leadership Development** 	Leadership Principles for Engineers, Scientists, and Researchers $3,650	Understanding Organizational Strategy and Capabilities	5 Hours per Week	4 Weeks	1.25	$1,100
14			Negotiating and Applying Influence and Power	5 Hours per Week	3 Weeks	1.25	$1,100
15			Navigating and Leveraging Culture and Networks	5 Hours per Week	3 Weeks	1.25	$1,100
16			Discovering and Implementing Your Leadership Strengths	5 Hours per Week	3 Weeks	1.25	$1,100
17		Leading Teams		4-5 Hours per Week	3 Weeks	1.25	$1,100
18		Critical Thinking and Decision Making		4-5 Hours per Week	3 Weeks	1.25	$1,100
19		Technical Innovation: From Strategy to Application		4-5 Hours per Week	3 Weeks	1.25	$1,100
20		System Thinking		4-5 Hours per Week	5 Weeks	2.25	$1,500
21	Biotech	Principles of Biomanufacturing: Using Biotechnology to Manufacture Medicines		3-5 hours per week	6 weeks	3	$1,150

Illuminating Your Path to Innovation Excellence



HorizonX Services

Innovation Strategy

HorizonX Innovation Strategy service equips businesses to excel in today's fast-paced environment. Beginning with a comprehensive innovation readiness assessment, we uncover untapped potential and key growth opportunities within your organization. We then explore the broader market landscape, helping you transform visionary ideas into sustainable, long-term ventures.

Quantum Strategy

HorizonX Quantum Strategy includes developing a clear roadmap, assessing opportunities and risks, and ensuring readiness for quantum adoption by identifying use cases and securing data with quantum-safe encryption.

Additionally, we offer customized training, workshops, and seminars to enhance quantum literacy within your organization.

Artificial Intelligence

HorizonX Artificial Intelligence (AI) Strategy services are designed to help your organization harness the full potential of AI. We create a tailored roadmap that aligns with your business goals, identifying key opportunities & assessing risks to ensure successful AI integration. Our strategy includes pinpointing specific use cases where AI can drive innovation, improve efficiency, and provide a competitive advantage.

Corporate Training



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