

# ILLINOIS: THE GLOBAL QUANTUM HUB



## HOME TO

- **2 Department of Energy (DOE) labs**, Argonne National Laboratory and Fermilab, driving the future of quantum technology
- Illinois is home to **4 out of 10 national quantum research centers** funded by the National Quantum Initiative Act, the most of any U.S. state.
- **The Chicago Quantum Exchange**, one of the largest quantum collaboratives, convening over 200 leading researchers, over 50 corporate and non-profit partners, and one of the largest quantum talent pipelines
- **Duality**, the 1st quantum-focused startup accelerator in the U.S.
- **State-of-the-art infrastructure**, including 2 supercomputing centers, quantum foundries, testbeds, characterization, and fabrication facilities
- **The Illinois Quantum and Microelectronics Park (IQMP)**, a first-of-its-kind campus for quantum tech scale-up and R&D

## MILESTONES

- 2024:** The State's new 5-year economic plan defines 'quantum, AI, and microelectronics' as 1 of 6 high-priority industries, establishing targeted tax incentives and funding programs  
The State announces \$500M in funding for the IQMP
- 2023:** The U.S. Economic Development Administration designates the Chicago metro area as a Regional Technology and Innovation Hub
- 2021:** Duality is launched by University of Chicago Polsky Center for Entrepreneurship & Innovation and Chicago Quantum Exchange, in partnership with Argonne, University of Illinois Urbana-Champaign, and P33
- 2020:** Argonne and the University of Chicago launch a 52-mile 'quantum loop,' which has since expanded to a 200+ mile regional network, one of the longest ground-based quantum communication channels in the U.S.
- 2019:** The State commits \$200M to establish Illinois as leading quantum hub
- 2017:** Chicago Quantum Exchange launches

## WORKFORCE & TALENT PIPELINE

- **The 1st quantum PhD Program in the U.S.** at the University of Chicago
- **University of Illinois** (a top-5 engineering school) graduates more engineers each year than **Caltech, MIT, and Stanford combined**
- **More than 240 higher education institutions, including 6 R1** Universities, and the 3rd largest community college system in the U.S.
- **2 top-5 MBA programs:** Kellogg School of Business at Northwestern University and University of Chicago Booth School of Business
- **World-class universities** including quantum powerhouses, University of Illinois Urbana-Champaign, University of Chicago, and Northwestern University
- Nearly **40K degrees and certificates** awarded annually in quantum-related fields
- **Over 12K workers** in the greater Chicago area ready for quantum industry roles
- **Top-10 state** for both IT jobs and STEM graduates

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## ROBUST ECOSYSTEM, UNPARALLELED OPPORTUNITY

- **Chicago is the #1 metro** in the U.S. for new and expanding companies
- **Diverse industry base** with over **30 Fortune 500** companies creating conditions ripe for quantum technology exploration and adoption
- **Tax incentives and other funding** facilitate innovation, including INVENT (equity investment program), EDGE for Startups, Quantum Enterprise Zone (QEZ) benefits, Angel Investment Tax Credit Program, MICRO, Tech Incubator Enhancement Grants Program (TIEG), and many others
- **Innovation hub with impactful innovation drivers** such as Duality, mHUB, Argonne's Chain Reaction Innovations (CRI), and many others
- **Growing presence** of quantum and enabling technology companies such as EeroQ, IBM, Infleqtion, memQ, PsiQuantum, and qBraid active in Illinois

## QUANTUM INDUSTRY PLAYERS IN ILLINOIS INCLUDE:



CONTACT US FOR  
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