

# Company Overview



The Leader in Cold Atom Quantum Technology

Hilbert

Quantum Computing

QRaaS

Quantum Research as a Service

CAT

Cold Atom Tech



**130+ Employees**  
Mostly PhDs, Engineers  
and Scientists



**300+**  
Years of Quantum  
Experience



**49 Patents**  
16 Granted,  
23 Pending, and  
10 Exclusive Licenses



**2007**  
Founded



**Boulder, CO**  
Headquarters with Offices in  
Madison, WI and Oxford, UK



**\$60M+**  
3rd Party  
Awarded Contracts

**We leverage our leadership in Quantum Technology to deliver world-leading quantum devices and machines**

# Product Families



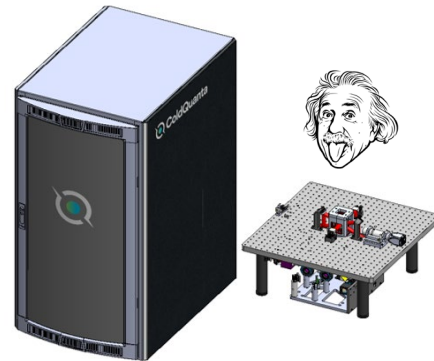
**UHV GLASS CELLS**



**COLD ATOM SOURCES**



**MAGNETO-OPTICAL TRAPS**



**ALBERT:  
QUANTUM MATTER MACHINE**



**TRAPPED ION  
PACKAGES**



**ATOMIC CLOCKS**  
Taking Pre-orders

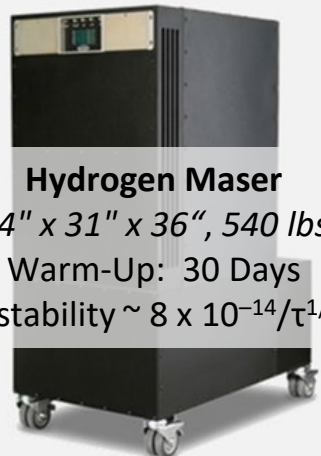
# Clock Development

R&D supported by 4 government programs

## CURRENT STATE-OF-ART



**5071A Cesium Clock**  
21" x 17" x 5", 66 lbs  
Warm-Up: 30 min  
Instability  $\sim 2 \times 10^{-11}/\tau^{1/2}$



**Hydrogen Maser**  
24" x 31" x 36", 540 lbs  
Warm-Up: 30 Days  
Instability  $\sim 8 \times 10^{-14}/\tau^{1/2}$

## COLDQUANTA HIGH PERFORMANCE CLOCKS



**1st Gen Microwave Clock**  
Preliminary data: Sep 2021  
Alpha: 1Q 2022  
Beta: 2Q 2022  
18" x 18" x 2", 15 lbs  
Warm-Up: 3 min  
3x instability improvement over Cs



**2nd Gen Microwave Clock**  
5" x 6" x 7.2", 5 lbs  
Warm-Up: 1 min  
5x instability improvement over Cs



**1st Gen Optical Clock**  
Preliminary data: 4Q 2022  
Alpha: 1Q 2023  
Beta: 2Q 2023  
18" x 18" x 7", 50 lbs  
Warm-Up: 5 min  
Instability within 10x of H maser



**2nd Gen Optical Clock**  
8" x 8" x 15", 20 lbs  
Warm-Up: 2 min  
Instability on par with active H maser

# What we offer / What we are looking for...

## What we offer

- Broad portfolio of quantum devices and machines
- World class team of scientists and engineers
- Precision manufacturing
- Expertise in RF sensing, gravimeters, accelerometers, quantum memory, and timing

## What are looking for

- Partnerships
- Understand the needs of system integrators
- Build a solid supply chain
- Advance laser technology

## Contact information:

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