

AI and Quantum Are Converging — Now

Caltech's new leadership marks a shift from simulation to real-world impact.

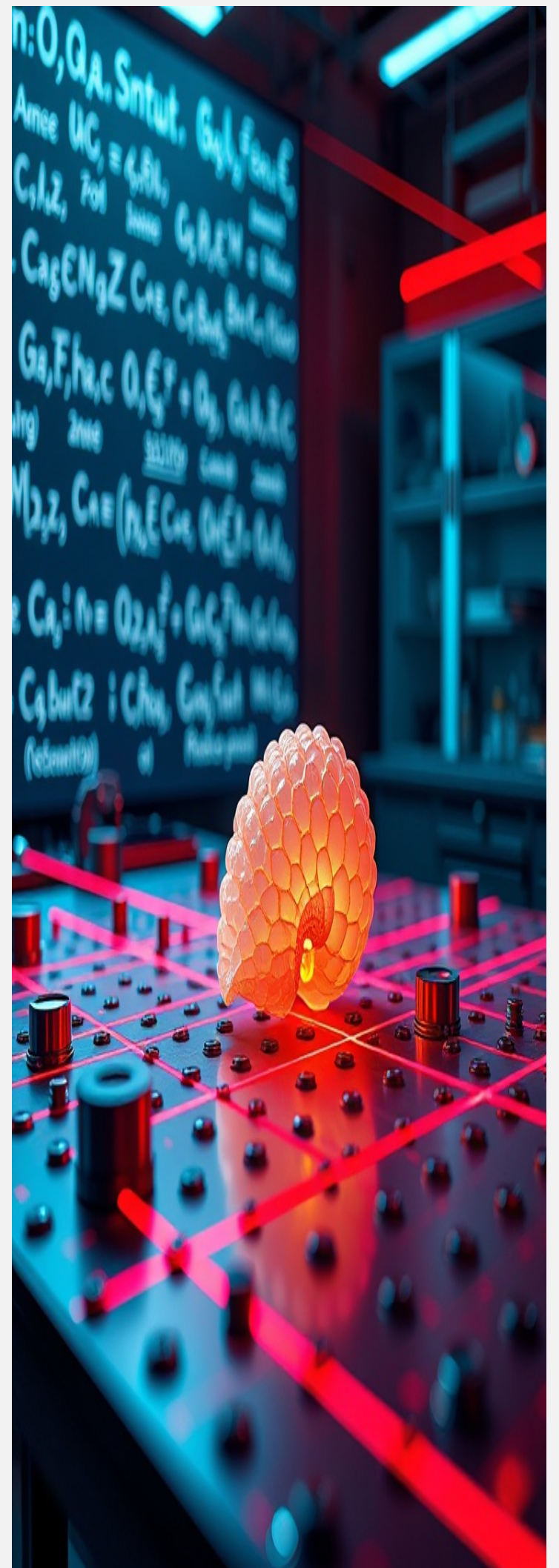
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90 years

Innovation Milestone

Caltech and JPL have now marked nine decades of breakthroughs in quantum sensing and space-based AI.

This milestone reflects a sustained commitment to building systems where quantum mechanics and artificial intelligence co-evolve — not in isolation, but as integrated tools for discovery. The convergence is no longer speculative; it is institutionalized.



01

Discovery Is Now Algorithmic

Caltech's 'Mathematics of Growing a Shell' demonstrates that biological symmetry emerges from quantum-inspired models. This suggests that AI is not just analyzing data — it is generating the very frameworks that explain natural phenomena. The boundary between modeling and discovery is dissolving.



02

The Next Wave Needs Labor Rights

The federal court's affirmation of early-career researchers' right to unionize at NIH signals a structural shift. As AI and quantum systems grow more complex, their development is no longer driven by lone geniuses but by distributed, collective intelligence. The future of innovation depends on institutionalizing worker agency — not just in ethics, but in access to tools and data.

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