Q-Mind · Clean Energy

Q-Mind

Country: El Salvador · San Salvador **Category:** Clean Energy **Impact Areas:** Mitigation, Circular Economy
Stage: Private Beta **Team Size:** 3 **Website:** — **Founder:** Andrea Sofía Lemus Cea

Elevator Pitch

Q-Mind is an AI-powered platform that accelerates the discovery and optimization of the next generation of solar cells made of quantum dots. Replacing costly and environmentally damaging laboratory trial-and-error methods with rapid virtual simulations

Climate Problem

Traditional clean energy innovation is too slow, expensive, and wasteful. Developing new materials requires trial-and-error experiments that generate toxic waste and delay the deployment of high-efficiency renewable technologies.

Solution

Q-Mind is an AI-powered virtual lab that simulates and optimizes advanced materials for clean energy. It replaces physical experiments with fast digital testing, reducing cost, time, and environmental impact while accelerating innovation.

Revenue Model

We currently have no revenue, but we plan a SaaS model: subscription-based access, pay-per-simulation, and enterprise licenses. Companies and research labs will pay to accelerate R&D, reduce costs, and optimize materials using our platform.

Target Market

Clean energy companies, materials R&D labs, universities, and deep-tech startups needing faster, cheaper ways to design and optimize advanced materials for renewable energy technologies.

Social Impact

People Living in Extreme Poverty

Demand Evidence

The demand is driven by high R&D costs and long development cycles in materials science. Industry trends show increasing adoption of AI for material discovery to reduce costs, time, and environmental impact.

Competitors

Competitors include materials simulation tools (DFT software) and AI platforms for material discovery. Most are costly or slow. We differentiate by combining speed, low cost, and physics-informed AI. No direct local competitors identified.

Founder Expertise

Our team combines physics, programming, and AI. We developed simulation models, genetic algorithms, and software architecture, integrating semiconductor physics with machine learning tools for material optimization.

External Support

No external support yet. Q-Mind has been fully developed independently as a research-based project, and we are now seeking mentorship, partnerships, and funding to scale it into a startup.

Source: ClimateLaunchpad 2026 Application · App ID: 8608 Ingested: 2026-05-25

Founder

Andrea Sofía Lemus Cea

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