

# Riverlane Press Kit

August 2024



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## About Riverlane

Riverlane (Registered name: Riverlane Ltd), headquartered in Cambridge, UK, is led by CEO and Founder Dr Steve Brierley. Riverlane also has an office in Cambridge, US.

UK office address (HQ)	US office address
Riverlane St Andrew's House 59 St Andrew's Street Cambridge CB2 3BZ	Riverlane 1 Broadway Ste 14 Cambridge MA 02142
UK	USA

Mail: [team@riverlane.com](mailto:team@riverlane.com)  
Website: [www.riverlane.com](http://www.riverlane.com)

## Boilerplate

**Riverlane's mission is to make quantum computing useful sooner, starting an era of human progress as significant as the industrial and digital revolutions.**

To achieve this, Riverlane is building the Quantum Error Correction Stack to comprehensively correct the millions of data errors that prevent today's quantum computers from achieving useful scale. Riverlane's customers are governments, quantum computer hardware companies and world-leading research labs. Investors include Planet First Partners, ETF Partners, EDBI, Molten Ventures, Amadeus Capital Partners and Cambridge Innovation Capital; the UK's national security investment fund (NSSIF); high-performance computing leader Altair; and the University of Cambridge.

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### What is the Riverlane product offering?

Riverlane is building Deltaflow – the Quantum Error Correction Stack.

Riverlane uses patented methods to apply error correction in real time. This technology is helping the world's leading qubit makers enable complex quantum calculations for real world use cases.

At the heart of the QEC Stack sits the world's most powerful decoder technology. Customisable to each qubit type, our decoder can be tightly integrated with any qubit control system to implement a complete high-speed quantum error correction cycle.

<b>Founded:</b>	2016
<b>Locations:</b>	<ul style="list-style-type: none"> <li>Headquartered in Cambridge, UK</li> <li>Boston, Cambridge (MA)</li> </ul>
<b>Headcount:</b>	98
<b>Capital raised:</b>	£95m (\$120m)
<b>Investors:</b>	<p><b>Series A:</b> Molten Ventures, Amadeus, Capital Partners, Cambridge Innovation Capital, University of Cambridge Enterprise.</p> <p><b>Series B:</b> Molten Ventures, Altair, Cambridge Innovation Capital (CIC), Amadeus Capital Partners, and National Security Strategic Investment Fund (NSSIF).</p> <p><b>Series C:</b> Planet First Partners, ETF Partners, EDBI, CIC, Amadeus Capital Partners, NSSIF and Altair.</p>
<b>Patents:</b>	We have a portfolio of <b>55</b> active patent applications and granted patents, <b>28</b> of them specific to QEC and including resource efficient decoding methods and parallelizable decoding.

## About Steve Brierley (Founder & CEO)

Steve Brierley founded Riverlane in 2016 to build the error correction stack for quantum computers. Driven by his conviction that fault-tolerant quantum computers will accelerate human progress, Riverlane partners with leading quantum hardware companies to make that happen sooner.

Steve has worked in quantum for over 20 years and is an expert advisor to the UK government. He holds a PhD in quantum information, spent a decade in the intelligence community and worked as a Senior Research Fellow at the University of Cambridge leading major research projects in quantum computing. In January 2024, Steve was awarded an OBE for his services to quantum computing.



Full bio can be found here: <https://www.riverlane.com/team/steve-brierley>

All Riverlane leadership team bios can be found here:  
<https://www.riverlane.com/who-we-are> under ‘Our Management team’



## Brand Assets

[Downloadable zip folder](#) contains assets including:

- Riverlane Logos and usage guidelines
- Riverlane Imagery
  - Leadership Photos
  - Team Photos
  - Riverlane UK HQ Photos
  - Product Images
  - Riverlane Partnership Images
- Riverlane Mission Video
- Riverlane QEC Stack Video
- Riverlane Capability Statement

## Latest News

### **Riverlane raises \$75 million to meet surging global demand for quantum error correction technology (6 Aug)**

[Riverlane](#), the global leader in quantum error correction technology, today announced that it has raised \$75 million in Series C funding to deliver its groundbreaking [quantum error correction \(QEC\) roadmap](#). The funding will enable Riverlane to expand operations to meet surging global market demand for QEC technology, with the goal of achieving one million error-free quantum computer operations by 2026.

<https://www.riverlane.com/press-release/riverlane-raises-75-million-to-meet-surg-ing-global-demand-for-quantum-error-correction-technology>

### **Riverlane partners with Atlantic Quantum to advance quantum error correction on fluxonium architecture (17 July)**

[Riverlane](#), the global leader in quantum error correction technology and [Atlantic Quantum](#), a leading developer of scalable, fault-tolerant quantum computers, today announced a strategic partnership to work together on quantum error correction. The partnership will combine Riverlane's quantum error correction (QEC) stack ('[Deltaflow](#)') and Atlantic Quantum's superconducting fluxonium-based qubit architecture to advance useful quantum computing.

<https://www.riverlane.com/press-release/riverlane-partners-with-atlantic-quantum-to-advance-quantum-error-correction-on-fluxonium-architecture>

## Riverlane unveils three-year quantum error correction roadmap (9 July)



Riverlane, the global leader in [quantum error correction](#) technology, has released its groundbreaking three-year roadmap for its [Quantum Error Correction Stack](#), Deltaflow, starting in 2024 and culminating in a system where quantum computers can run one million (Mega) error-free Quantum Operations (QuOps) by 2026.

<https://www.riverlane.com/press-release/riverlane-unveils-three-year-quantum-error-correction-roadmap>

## Riverlane joins the quantum energy Initiative (13 June)

Riverlane, the global leader in quantum error correction technology, is pleased to announce its acceptance into the Quantum Energy Initiative, a global community of quantum technology companies and research organisations committed to better understanding the physical resource cost of quantum technologies.

<https://www.riverlane.com/news/riverlane-joins-the-quantum-energy-initiative>

## Riverlane and Alice & Bob join forces to accelerate quantum error correction (29 May)

[Riverlane](#), the global leader in quantum error correction technology, and [Alice & Bob](#), a leading developer of fault-tolerant quantum computers, have signed a collaboration agreement to work on the integration of Riverlane's quantum error correction (QEC) stack within the larger quantum computing system based on cat qubit technology Alice & Bob is developing.

<https://www.riverlane.com/news/riverlane-and-alice-bob-join-forces-to-accelerate-quantum-error-correction>

## Riverlane awarded £2.1m by Horizon Europe to develop the next generation of its quantum error correction decoder (1 May)

[Riverlane](#), the global leader in quantum error correction technology, is proud to announce the award of a £2.1m [European Innovation Council \(EIC\) Transition](#) grant funded by the [Horizon Europe guarantee](#) and backed by the Department for Science, Innovation & Technology (DSIT). Stemming from Riverlane's foundational research in quantum error correction, this grant will propel the development of a quantum error decoder capable of supporting the real-time decoding of quantum operations – a crucial step to achieving quantum advantage.

<https://www.riverlane.com/news/riverlane-awarded-2-1m-by-horizon-europe-to-develop-the-next-generation-of-its-quantum-error-correction-decoder>

## Riverlane Social Media Channels

Twitter: [@RiverLane\\_io](https://twitter.com/RiverLane_io)

LinkedIn: <https://www.linkedin.com/company/river-lane-research-ltd/>

YouTube channel: <https://www.youtube.com/channel/UCLsSWTktsqRRCS8t90TiRtg>

Website: [www.riverlane.com](http://www.riverlane.com)