

Riverlane Press Kit

June 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.

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UK	USA

Mail: team@riverlane.com
Website: 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 leading venture capital funds 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.

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.

Founded:	2016
Locations:	<ul style="list-style-type: none"> • Headquartered in Cambridge, UK • Boston, Cambridge (MA)
Headcount:	98
Capital raised:	£38m (\$45m)
Investors:	<p>Series A: Molten Ventures, Amadeus, Capital Partners, Cambridge Innovation Capital, University of Cambridge Enterprise.</p> <p>Series B: Molten Ventures, Altair, Cambridge Innovation Capital (CIC), Amadeus Capital Partners, and National Security Strategic Investment Fund (NSSIF).</p>
Patents:	We have a portfolio of 55 active patent applications and granted patents, 28 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 Joins the Quantum Energy Initiative (13th 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 (29th 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 awarded DARPA Quantum Benchmarking Program Grant (17 April)

Riverlane has been selected for Phase 2 of the Quantum Benchmarking program funded by the Defense Advanced Research Projects Agency (DARPA).

<https://www.riverlane.com/news/riverlane-awarded-darpa-quantum-benchmarking-program-grant>

Riverlane granted two US ‘power-aware’ patents (12 March)

Riverlane has been granted two United States Patents for its “power-aware transmission of quantum control signals” and “quantum computing apparatus and associated methods”.

<https://www.riverlane.com/news/riverlane-granted-two-us-power-aware-patents>

Rolls Royce, Riverlane and Xanadu partner to win Canada-UK quantum computing bid (11 March)

[Rolls-Royce](#), [Riverlane](#) and [Xanadu](#) have secured more than [£400,000 grant funding from Innovate UK](#) to accelerate the development of applications that will allow quantum computers to model the flow of air through jet engines. An additional CAD \$500,000 has been awarded from the National Research Council of Canada Industrial Research Assistance Program (NRC IRAP) as part of a growing relationship between the UK and Canada on quantum computing technology and expertise.

<https://www.riverlane.com/news/rolls-royce-riverlane-and-xanadu-partner-to-win-canada-uk-quantum-computing-bid>

Riverlane and Rigetti partner with Oak Ridge National Labs to improve HPC- Quantum Integration (27 Feb)

Riverlane and Rigetti Computing (Nasdaq: RGTI) today announced their participation in a project led by the US Department of Energy’s Oak Ridge National Laboratory (ORNL) to explore the challenges of integrating a quantum computer with a large-scale, supercomputing centre.

<https://www.riverlane.com/news/riverlane-and-rigetti-computing-partner-with-oak-ridge-national-laboratory-to-work-to-improve-hpc-quantum-integration>

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