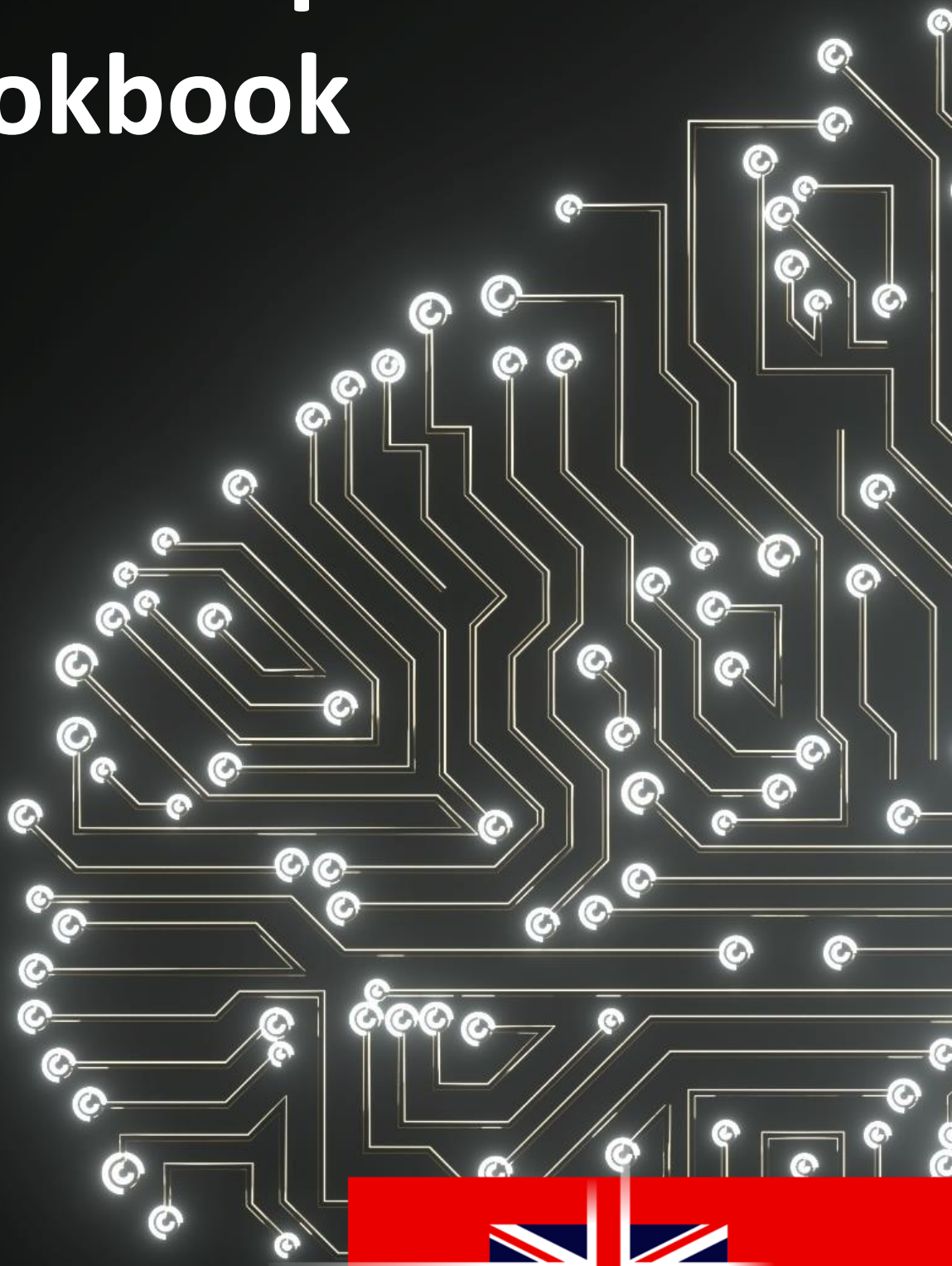


# DBT Deep Tech Lookbook



# Contents

<a href="#">Disclaimer</a>	3
<a href="#">About us</a>	4
<a href="#">Agenda</a>	5
<a href="#">Company details</a>	
<a href="#">Vector Photonics</a>	6
<a href="#">Zero Point Motion</a>	7
<a href="#">Luffy AI</a>	8
<a href="#">Quantum Dice</a>	9
<a href="#">BeyondMath</a>	10
<a href="#">Signaloid</a>	11
<a href="#">pureLiFi</a>	12
<a href="#">Diffblue.</a>	13
<a href="#">Optalysys</a>	14
<a href="#">Phasecraft</a>	15
<a href="#">Quantum Motion</a>	16

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The UK National Security and Investment (NSI) Act took effect on 4 January 2022 and will require certain types of M&A transactions, including equity investments, in 17 sectors to be notified to a dedicated government unit, the ISU, for review. DBT Venture Capital Unit will continue to match investors with relevant UK investment opportunities and can provide guidance on engaging ISU. We’re unable to provide further advice or legally binding guidance on notifications, but to be aware: mandatory notification occurs when new or existing ownership stakes pass thresholds of 25%, 50% and 75%. However, the ISU may itself review transactions outside of these parameters. Detailed information about the NSI Act can be found at [gov.uk](https://www.gov.uk).



Department for  
Business & Trade

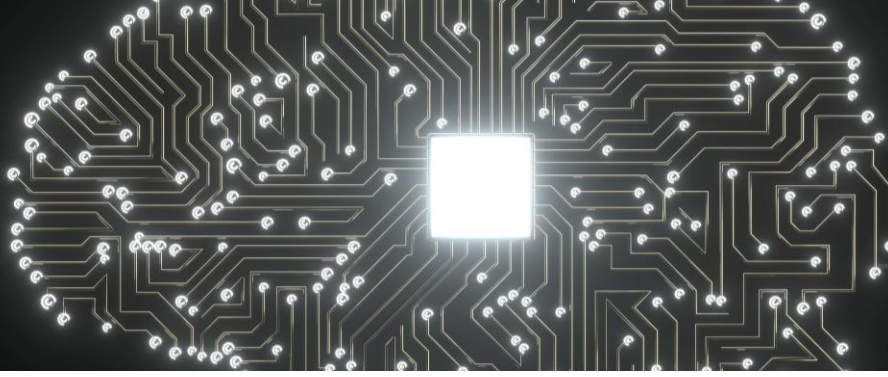
# About us

## Department for Business and Trade:

The UK's Department for Business and Trade (DBT) secures prosperity by promoting international investment and championing free trade. DBT's Venture Capital Unit (VCU) matches qualified investors with opportunities across multiple sectors in the UK. We support innovative UK companies from start-ups to growth stage, helping them to scale, launch next-generation products and services, and expand their presence internationally, creating highly skilled jobs and growth across the UK.

## Venture Capital Unit

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Website: [Venture Capital Unit](#)



# Department for Business and Trade

## Venture Capital Unit - Deep Tech Showcase

London Stock Exchange 10 Paternoster Sq., London EC4M 7LS  
26 March 2025, 12:00-17:00

Timing	Programme
12:00 – 13:00	Arrivals, lunch and initial networking
13:00 – 13:10	<b>Welcome from DBT’s Venture Capital Unit (VCU) and London Stock Exchange (LSEG)</b> Paul Morris, Senior VC Advisor (DBT) and Neil Shah, Head of Tech, UK Primary Markets (LSEG)
13:10-13:20	<b>Opening remarks</b> Baroness Gustafsson of Chesterton, Minister for Investment
13:20 – 13:35	<b>Keynote address</b> Clayton Williams, Managing Director, In-Q-Tel
13:35 – 13:40	<b>Pitch introductions</b> Paul Morris, Senior VC Advisor (DBT)
13:40 – 14:30	<b>First set of pitches:</b> <ul style="list-style-type: none"> <li>• <b>Vector Photonics</b> – Dr Richard Taylor, CTO</li> <li>• <b>Luffy AI</b> – Matthew Carr, co-founder and CEO</li> <li>• <b>Zero Point Motion</b>, Lia Li, CEEO</li> <li>• <b>Quantum Dice</b> – Ramy Shelbaya, co-founder and CEO</li> <li>• <b>BeyondMath</b> – Wasil Rezek, COO</li> <li>• <b>Signaloid</b> – Phillip Stanley-Marbell, CEO</li> </ul>
14:30 – 14:55	<b>Coffee and networking break</b>
14:55 – 15:05	<b>Quantinum presentation</b> Waseem Shiraz, SVP of Strategic Initiatives & Chief of Staff
15:05 – 15:55	<b>Second set of pitches</b> <ul style="list-style-type: none"> <li>• <b>pureLiFi</b> – Ron Schaeffer, CSO</li> <li>• <b>Diffblue.</b> – Toffer Winslow, CEO</li> <li>• <b>Optalysys</b> – Dr Nick New, CEO</li> <li>• <b>Phasecraft</b> – Prof John Morton, co-founder</li> <li>• <b>Quantum Motion</b> – Hugo Saleh, President and CCO</li> </ul>
15:55 – 16:00	<b>Closing remarks</b> Paul Morris, Senior VC Advisor (DBT)
16:00 – 17:00	<b>Drinks and networking</b>

# Vector Photonics



## Round

- £10,000,000
- Series A
- Round is opening Q2 2025

## Current Investors

- Foresight Williams
- Equity Gap
- UKI2S
- Clean Growth Fund
- Scottish Enterprise

## Company HQ

- Glasgow

## Employees

- 8

## VALUE STATEMENT

Vector Photonics aims to disrupt the semiconductor laser industry with their cutting-edge PCSEL technology. The rise of advanced communication networks, 5/6G and AI technologies, has led to an unprecedented demand for high-speed data transmission. This widespread adoption of next-generation communication technologies has driven the development of more advanced semiconductor lasers. The incumbent technologies have struggled to meet next generational demands for power and wavelength. Vector believes their PCSEL technology has the potential to meet those demands.

## MARKET INDICATORS

The Semiconductor Laser Market size is estimated at \$9.34bn in 2026 and is expected to reach \$17.52bn by 2030, at a CAGR of 13.4% (2025-2030).

## TRACTION INDICATORS

Vector's technology has won awards from the RAEng and IET. Their customer pipeline includes blue chip companies within the data communications sectors, and they anticipate revenues from early customer engagement within the next 12 months.

## STAGE INDICATORS

Vector has raised £6m to date which has been utilised to de-risk the technology development, build the team, and develop a strong IP portfolio. Over the next 12 months they will build customer specific demonstrators that will lead to commercial engagement.

## STRENGTH OF TEAM

- Richard Taylor – CTO and founder - developed the underlying technology. A multi award winning chartered engineer, named inventor on 12 patent families within the company portfolio. Before founding Vector, Richard worked at Universities of Sheffield, Tokyo, Glasgow and Bristol.
- William Coyle – Operations Manager, over 30 years of engineering experience across multiple markets, including transferring technology from innovation from conception through to commercialisation. William extensive experience of the semiconductor industry and will lead supply chain management.
- Dave Pratt – Chairman, previously the CEO of a science-based investment business and held senior executive roles for several large international companies in the defence and energy sectors. Dave has also been involved in the commercialisation of emerging technologies. In 2004 he led a university spin out to a successful IPO.



# Zero Point Motion



## VALUE STATEMENT

Zero Point Motion is pioneering breakthroughs in cavity optomechanics, silicon photonics, and MEMS. Their goal - every semiconductor sensor harnessing silicon photonics, bringing the precision of gravitational wave detection—and eventually, quantum effects—to everyday devices. To realise this, Zero Point Motion have started with inertial sensors—the backbone of navigation in smartphones, cars, drones, and wearables—where performance has long been limited by trade-offs in size, power, and cost. By replacing traditional sensing with optical readout, they unlock ultra-precise motion data, enabling smarter automation, seamless navigation, and richer real-time intelligence.

## MARKET INDICATORS

The industrial inertial sensor market is set to reach \$1.3bn by 2025, while automotive motion sensors grow to \$22.5bn by 2026 (23% CAGR). Aerospace and defense need 20m+ IMUs for drones, and AR/VR shipments will hit 90m by 2028 (30-50% CAGR). Precision motion sensing is vital for autonomy, robotics, wearables, and smart devices, yet existing IMUs suffer from excessive drift. Zero Point Motion's solution enables longer GPS-free navigation, ultra-precise tracking, and scalable automation, disrupting consumer and industrial markets.

## TRACTION INDICATORS

Strategic partnership with GNSS supplier u-blox with strong interest from industrial, automotive & high-end consumer electronics manufacturers. Innovate UK grant in connected and autonomous mobility. Multiple awards from Sensors Converge, TechWorks, Institute of Physics and ElectroOptics.

## STAGE INDICATORS

Zero Point Motion closed their \$3.5m Seed round in 2022 to build out the team and create system architecture, resulting in chipscale prototypes developed in their lab. A Pre-A round raised in 2025 allowed them to reach engineering samples and customer demos. They have successfully transitioned to world leading commercial semiconductor foundries to scale production, with a planned Series-A round to fund sensor qualification, build sales and develop products for the consumer market.

## STRENGTH OF TEAM

- Dr Lia Li/CEO: Royal Academy of Engineering Intelligence Community Fellow, EPSRC Doctoral Prize Fellow, 4 patents granted with 3 pending, Institute of Physics Clifford Paterson Medal. Previously BAE Systems
- Dr Gordon Aspin/Exec Chairman: +30 years building chipset & software businesses to acquisition & IPO (TTP, TTP Communication, Cognovo)

## Round

- Pre-A £4M Closed in Q1 2025
- £10M+ Series-A Raising in 1H 2026

## Current Investors

- Foresight
- SCVC
- Verve Ventures
- u-blox

## Company HQ

- Bristol

## Employees

- 9



## VALUE STATEMENT

Luffy develops adaptive AI controllers for industrial edge equipment. Their bio-inspired AI controllers are 400x more computationally efficient than Deep Learning. Luffy make AI controllers that can be embedded into industrial equipment such as motors, drives, thermal moulding, furnaces and robotics. The AI adapts to changes in the equipment to improve energy efficiency and throughput of the process.

## Round

- £10,000,000
- Series A
- Round opening Q3 2025

## Current Investors

- Momenta
- Bow Capital
- Presidio Ventures
- EastInnovate
- Chrysalix
- UKI2S

## Company HQ

- Oxford

## Employees

- 18

## MARKET INDICATORS

The global industrial AI market is \$72bn and growing at 31% CAGR. Luffy's initial focus markets are furnace control and industrial motor control. The near-term addressable market for furnace control is ~\$780m. The near-term addressable market for AC industrial motors is \$274m. Expansion into adjacent segments in mining, cement and chemicals adds an additional \$2bn in near-term addressable markets.

Luffy's AI control products align with two macro political trends:

- Industrial energy efficiency and decarbonisation
- Reshoring manufacturing requires advanced AI control to be competitive

## TRACTION INDICATORS

Luffy has £495k in signed pilots with £315k ARR under negotiation, commercial pilots under way with a major German automation company and an international metals player. The company is forecasting £1m+ ARR by the end of 2025

## STAGE INDICATORS

Luffy raised £4.6m during their Seed round in 2024. The funds were used for product development, patenting and supporting commercial pilots. They are seeking Series A funding in 2025 to expand the sales team, support more pilot customers and enter new industrial markets.

## STRENGTH OF TEAM

- Dr Matthew Carr – CEO & Co-founder, expert in AI, modelling and data science
- Dr Alex Meakins – CTO & Co-founder, PhD in neuroevolution, inventor of Luffy's neuroplastic AI stack
- John Shaw – COO, ex-Microsoft and Sophos, built product lines with ~£800m in ARR
- Daniel Coetzee – EVP of Sales, ex-senior leader at Emerson and GE, 20+ years selling industrial control systems

# Quantum Dice



## VALUE STATEMENT

Quantum Dice is using patented award-winning quantum photonic architecture to resolve one of the longest standing challenges in computing: the generation of reliable and high-quality randomness for a wide range of applications in cyber security and computing.

## MARKET INDICATORS

The company's primary markets are in cyber security, specifically cryptographic solutions and next generation computing, specifically probabilistic computing. For the former, there are expected to be over 70 billion devices by 2034 that require encryption for the protection of their data. For the latter, the overall expected market is massively growing with a TAM expected to reach over \$3tn by 2034.

## TRACTION INDICATORS

The company has won multiple awards such as the the IoP Business Award, European Technology Awards, Top 100 Startups UK (#13 and #7 in consecutive years), and Santander X Global Challenge. They have also received numerous Innovate UK grants. Initial products have already been deployed around the world with customers including BT, HSBC, SpeQtral, and others in the US and Asia.

## STAGE INDICATORS

To date, Quantum Dice has raised £6.5m in equity funding. Over the next 12 months, they plan to further grow revenue and refine product market fit. They are also looking to complete a number technology integration projects with major systems developers. Quantum Dice is also looking to further prove out the capability and advantages of their patented probabilistic computing architecture in a range of commercial use cases. The upcoming fundraise will be used to advance productisation to reach scale production capabilities and grow the commercial and product development teams.

## STRENGTH OF TEAM

- Dr Ramy Shelbaya - CEO and Co-founder, DPhil in Atomic and Laser Physics, published in multiple world-leading academic journals, Forbes 30 Under 30 in Europe in Technology for 2023.
- Dr Marko von der Leyen - CTO and Co-Founder, DPhil in Atomic and Laser Physics from the University of Oxford
- Janet Collyer, MBE – Chairperson, engineer by training, Group Director of Strategic Accounts at Cadence Design Systems, as well as Director of multiple companies from small early-stage spinouts to publicly trading large corporates.

## Round

- £10,000,000
- Series A
- Round opening Q4 2025

## Current Investors

- Elaia Partners
- IP Group
- Future Planet Capital
- Impact X
- A15
- Afrimobility

## Company HQ

- Oxford

## Employees

- 20



# BeyondMath



## VALUE STATEMENT

BeyondMath is pioneering an AI-first approach to physics simulations, revolutionising the way companies design, build and interact with the world around us. The company has an initial focus on automotive Computational Fluid Dynamics (CFD). The major problem with traditional digital simulation is that it is absurdly expensive and slow. A few 100 milliseconds of real time simulation can take a \$50m supercomputer many hours or even days to complete. BeyondMath's Digital Wind Tunnel enables clients to run simulations 1,000x faster than traditional methods. This has a number of benefits to clients, including increased design iterations, faster time to market and lower High Performance Computing (HPC) costs.

## Round

- Series A
- Round opening Q3 2025

## Current Investors

- UP Partners
- Insight Partners
- InMotion Ventures
- Creator Fund
- EXFI

## Company HQ

- London

## Employees

- 20

## MARKET INDICATORS

The global market opportunity for superior digital simulation is evidenced by the scale of some of the largest incumbents that have a combined market cap far exceeding \$200bn (Siemens, Ansys, Dassault, Cadence and Autodesk). Some of the largest vertical markets within digital simulation include: automotive (\$4.6bn pa), energy (\$3.6bn pa) and aerospace (\$2.7bn pa).

## TRACTION INDICATORS

BeyondMath has shown initial market traction in the automotive sector via a substantial paid pilot with a leading F1 team. In addition, BeyondMath secured investment from Inmotion Ventures, the investment arm of JLR.

## STAGE INDICATORS

BeyondMath raised its \$8.5m seed investment in 2024. The focus to date has been on building the world's most sophisticated AI model of physics, which has the ability to simulate industrial scale problems. The model is currently being proven out in initial paid pilots. They plan to secure their first Enterprise software licences later in 2025

## STRENGTH OF TEAM

BeyondMath was founded by AI industry veterans, Alan Patterson and Darren Garvey, that collectively have over 40 years of industry experience. Former AI startups have been sold to Rolls Royce, Amazon and Google. The broader team has been hired from leading institutions including: Google Deepmind, NASA as well as top-tier universities including Imperial, Oxford and Cambridge.



## Round

- £20,000,000
- Series A
- Round opening Q2 2025

## Current Investors

- Type I Ventures
- IQ Capital
- Cambridge Enterprise
- Parkwalk

## Company HQ

- Cambridge, UK

## Employees

- 18

## VALUE STATEMENT

Signaloid provides a computing platform (as hardware or cloud) that speeds up many computing workloads critical to the Finance and Manufacturing sectors, with speedups, on key workloads, of 10x – 1000x. For the Finance sector, the benefits include lower NRE costs (15x reduction in relevant use cases), lower TCO, and the ability to deploy new sophisticated pricing and risk models previously considered too computationally-expensive, enabling higher returns and better regulatory risk analysis. For the manufacturing sector, the benefits include lower costs and higher manufacturing plant throughput, resulting from the ability to deploy better (and explainable) AI-driven predictive maintenance.

## MARKET INDICATORS

Bottom-up SAM analysis of market data indicates that global spend on tasks relevant to Signaloid's product, in target verticals, is \$620m for Finance and \$600m for Manufacturing. These markets each have a bottom-up total spend of \$20bn, with CAGR of 13%.

## TRACTION INDICATORS

Manufacturing customers include large aerospace companies such as Boeing. A cost-optimised variant of Signaloid's hardware product, targeting edge AI, and shipping, already has over 390 preorders from Mouser (one of the world's largest semiconductor/electronics distributors). To deliver a high-end variant of their hardware product targeting Finance applications, Signaloid has a partnership with IMEC and TSMC. Complementing this hardware traction, Signaloid are in advanced technical scoping with two large banks to run risk modelling workloads on cloud and on-premises deployments of their platform; they are obtaining certifications needed (SOC 2 II, ISO 27001) to close these deals. As of Q4 2026, their revenue, based on contracts already signed, is assured to be over £2m per year.

## STAGE INDICATORS

Signaloid raised a £3m of seed funding in January 2023, have since signed contracts for nearly £5m in revenue, and have a 29-month runway. They are raising a Series-A round to go after the \$1.2B ARR opportunity across Finance and Manufacturing and to provide a cash buffer to reassure Finance sector customers of their longevity, before they build mission-critical portions of their production infrastructure atop our platform.

## STRENGTH OF TEAM

- Phillip Stanley-Marbell, Founder/CEO. Ex-Bell Labs/IBM/Apple/MIT/Cambridge.
- Vasileios Tsoutsouras, VP Engineering. Ex-Cambridge.
- Sarah James, People Operations. Ex-ARM/TTP.



## VALUE STATEMENT

pureLiFi claim to be a global leader in LiFi technology, using light to transmit high-speed, secure and reliable wireless communications. Unlike traditional Radio Frequency technologies like WiFi, LiFi uses the light spectrum, providing advantages in speed, security, latency, capacity and efficiency.

## MARKET INDICATORS

Across existing and emerging focus markets, the SAM will approach \$10bn annually by the end of the decade out of a TAM of \$100bn. Thanks to standardisation of LiFi in IEEE 802.11 alongside WiFi, pureLiFi's products now have access to a network and device categories shipping over 5 billion units annually.

## TRACTION INDICATORS

pureLiFi's 2024 revenue grew by 148% YoY to nearly \$5m and is forecasted to reach £200 million as pureLiFi expands from defence and intelligence categories to much larger, high potential markets in the telecom and consumer device sectors.

pureLiFi systems are in use with UK and US global defence, government and intelligence organisations. Some of the largest telecom operators and consumer electronics vendors are evaluating pureLiFi tech for their own networks and devices.

## STAGE INDICATORS

pureLiFi is following a common path from deep tech to defence to consumer. The company raised £35m to date which has gone toward technology development and market creation. pureLiFi has 66 granted patents and a strong pipeline with new grants at a rate of a about 2 per month.

Proceeds from the current round will be used to scale the company to meet demand from high volume telecom and consumer markets on a fables basis.

## STRENGTH OF TEAM

Cofounded by Prof Harald Haas, "Father of LiFi" & Van Eck Chair for Engineering at Cambridge University, pureLiFi is led by a world-class team of technology pioneers & industry experts who have collectively shipped over a billion IC and mobile devices.

- CEO Alistair Banham – Leading roles at Wolfson, Philips, ON Semi & Motorola
- CTO Mostafa Afgani – Leads industry in LiFi firsts; Cofounder
- COO Mark Hesketh – Senior leader in defence & semis including Cirrus & BAE
- CSO Ron Schaeffer – Responsible for some of the world's first smartphones

## Round

- £10,000,000
- Series B
- Open now

## Current Investors

- Temasek
- In-Q-Tel
- Scottish National Investment Bank
- Scottish Enterprise

## Company HQ

- Edinburgh

## Employees

- 51



## VALUE STATEMENT

Diffblue is an Oxford University spin-out that has developed a generative AI agent that automates the creation and maintenance of unit tests - the foundation of any software quality assurance programme. Developers generally loathe writing unit tests, and Diffblue's agent solves this problem 25x faster than the best alternatives without compromising quality, security or transparency. They accelerate app modernisation initiatives, improve software quality and reduce development costs.

## Round

- £30,000,000
- Series B
- Round opening Q4 2025

## Current Investors

- IP Group
- Albion Capital
- Parkwalk
- Citi Group
- OSE
- OTIF
- Oxford University

## Company HQ

- Oxford

## Employees

- 45

## MARKET INDICATORS

The test automation market was valued at c.\$30.2bn in 2023 and forecast to grow to \$92.5bn by 2030.

## TRACTION INDICATORS

4 of the top 10 US banks are major Diffblue customers, as well as leading enterprises across multiple verticals. The company was a Gartner Cool Vendor in 2020 and nominated as a finalist in the DevOps Dozen Awards in 2024 in the category of "Best Application of AI in DevOps". The company grew 53% in FY24 and expects to grow 180% in FY25.

## STAGE INDICATORS

Diffblue has raised £16m of Series A funding since 2021 and has runway until mid 2026. Funds raised have been, and continue to be, used for product development - specifically for Java code and establishing GTM. Series B funds will be used to further scale the business and add additional languages (e.g. Python) and adjacent security/refactoring products.

## STRENGTH OF TEAM

- Dr Peter Schrammel – CTO & Co-founder, highly experienced in embedded systems and program analysis. Assistant Professor of Computer Science at University of Sussex
- Toffer Winslow – CEO, experienced CEO, GTM exec & fundraiser. Ex Dynatrace, RSA & Tamr
- Dr Andy Piper – VP, Engineering, 20+ years enterprise software engineering experience; PhD Cambridge
- James Barrington-Wells – CFO, highly experienced in high growth start-ups and corporate finance. ACA qualified



## VALUE STATEMENT

Optalysys is unlocking the future of Secure AI through the development of their unique optical computing technology. They work with governments, major banks and hyperscalers to offer acceleration of Fully Homomorphic Encryption methods that will fundamentally change the way we protect and use our data on the cloud.

## MARKET INDICATORS

Major opportunities exist in every industry sector, starting with encrypted blockchain and secure databases, leading to Secure AI (the latter unlocked exclusively by the rise of dedicated accelerators for FHE). The company foresees a total TAM of \$94bn by 2030.

## TRACTION INDICATORS

Optalysys has first product launches this year in the encrypted blockchain space and have contracts in place with the UK government. The company work closely with hyperscalers who are looking to adopt the technology into their cloud offerings. They recently expanded from 15 to 50 people and will reach 100 by the end of 2026. Recent awards include CYBERUK 2024 "Cyber Den" and the Cambridge Tech Week Scale Up Plan award. Revenues are forecast at £2m in 2026 and £18m in 2027, rising to £598m by 2030.

## STAGE INDICATORS

Currently raising a £50m Series B round following the close of a £21m Series A round in Q4 2023. Previous capital was used for developing the technology and chip tape-outs. The Series B raise will commercialise the technology, advance the next generation hybrid photonic chips and establish a commercial US presence.

## STRENGTH OF TEAM

- Dr Nick New – CEO and Founder, spun out the predecessor company from Cambridge University in 2002 and has over 25 years in the field of optical computing.
- Robert Todd – CTO and Founder, specialist designer and manufacturer of optical systems for defence and industry and has worked in the field since 2004.
- Michael Christoforou – VP Commercial, Products and services development with NetApp, Oracle, SS&C Blue Prism and others.
- Gajinder Panesar – Chief Architect: vastly experienced in chip development, from Nvidia, UltraSoc
- Tim Whitfield – head of Engineering: lead teams in Imagination, ex ARM

## Round

- £50,000,000
- Series B
- Open

## Current Investors

- Lingotto
- Northern Gritstone
- imec.xpand
- Verve Ventures

## Company HQ

- Leeds, West Yorkshire

## Employees

- 50



## Round

- Series B close in progress (Feb 25)
- Series C planned in 2026

## Current Investors

- Playground Global
- LocalGlobe
- Albion VC
- Episode 1
- Parkwalk
- + 2 new Series B investors

## Company HQ

- Bristol, UK

## Employees

- 36

## VALUE STATEMENT

Phasecraft claim to be the only quantum software company laser-focused on quantum advantage. They develop quantum-classical solutions that enable quantum computing to enhance industry-standard methods in months, not decades.

## MARKET INDICATORS

The quantum computing market in 2025 is sized at approximately \$10bn and could grow to up to \$70bn by 2035. However, Phasecraft see this technology as an enabler to competing in larger markets like such as batteries (\$100bn), chemicals (\$750bn), and logistics (\$10tn), amongst others.

## TRACTION INDICATORS

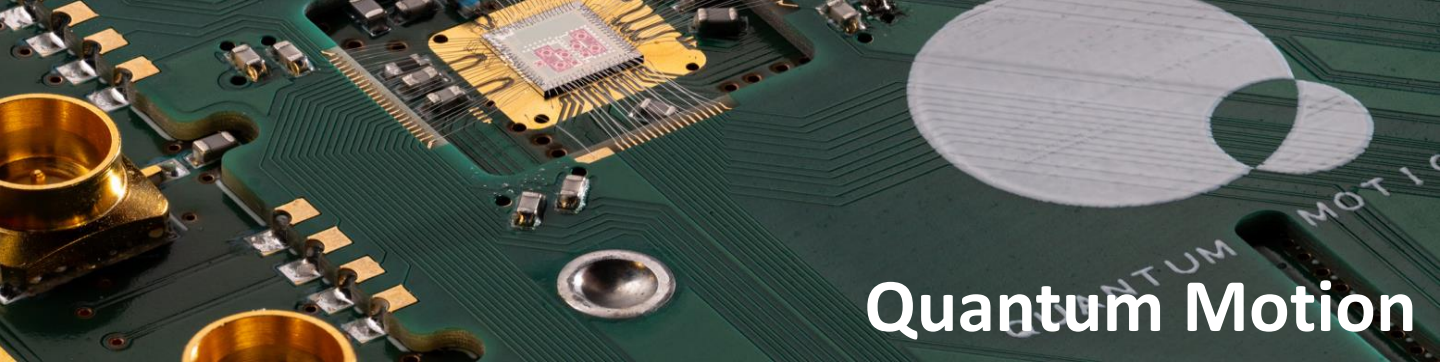
Since 2019 Phasecraft's proprietary algorithms have advanced the state of the art 10,000x faster than quantum hardware with 10x greater capital efficiency than a hardware investment - and without needing to bet on one hardware platform. They have reduced the cost of modelling materials on a quantum computer by 1,000,000x compared with the best previous algorithms. Furthermore, they are the only quantum software company to be working with all of the top players in quantum hardware, across multiple technologies.

## STAGE INDICATORS

Since the Series A, Phasecraft has developed a radically new "quantum-enhanced" approach to quantum algorithms, using quantum computing to improve classical methods without needing to replace them completely. In materials, chemistry and pharma simulation, they have developed a quantum-enhanced version of density functional theory (DFT), the standard workhorse algorithm for materials and chemistry, and in optimisation, they have shown that their quantum-enhanced methods can accelerate popular algorithms for fundamental problems in network design also important for finance and logistics, even with a noisy and inaccurate quantum computer. In parallel, the company is pushing towards quantum advantage in 2025 with multiple experimental projects on world-leading quantum hardware.

## STRENGTH OF TEAM

- Founders Prof. Toby Cubitt, Prof. Ashley Montanaro, and Prof. John Morton, and head of US Prof. Steve Flammia each bring 20+ years' experience at the forefront of quantum computing research and have all received international prizes in the field
- Dr Glenn Jones (ex-head of materials modelling at Johnson Matthey) and Dr Nikitas Stamatopoulos (ex-head of quantum computing at Goldman Sachs) lead Phasecraft's chemistry and finance application efforts



# Quantum Motion



## VALUE STATEMENT

Quantum Motion delivers silicon-based quantum computers fabricated using standard CMOS processes. By harnessing advanced transistor manufacturing methods, they enable large-scale, fault-tolerant quantum computing to address intractable challenges for partners in pharmaceuticals, materials science, and finance.

## MARKET INDICATORS

Global quantum computing is projected to become a \$100bn industry by the mid-2030s, driven by demand in chemistry, pharmaceuticals, and advanced materials. Leveraging scalable silicon-based fabrication allows Quantum Motion to tap directly into existing semiconductor supply chains and infrastructure, expanding their addressable market far beyond niche quantum applications.

## TRACTION INDICATORS

Quantum Motion are delivering a full stack-quantum computing system to the UK's National Quantum Computing Centre (NQCC) for real-world performance validation. They are also collaborating with DARPA to develop a utility-scale quantum computer based on their silicon spin qubit platform. Over the next three years, Quantum Motion plan to double existing headcount and deliver commercial deployments as their machines demonstrate fault tolerance.

## STAGE INDICATORS

Quantum Motion has raised over £50 million from leading technology investors (Bosch Ventures, Sony, Porsche) and scaled to 100+ team members across four countries (UK, EU, Aus, US) since inception in 2017. The company worked with Goldman Sachs and other leading companies to demonstrate applications for utility scale quantum computers

## STRENGTH OF TEAM

Chaired by Alberto Sangiovanni-Vincentelli, the founder of Cadence (\$65bn) and Synopsis (\$70bn), the company is led by its founders Simon Benjamin (Oxford) and John Morton (UCL) - award-winning pioneers in the field of quantum computing - and James Palles-Dimmock as CEO.

## Round

- £80,000,000
- Series C
- Round is open

## Current Investors

- RBVC
- Oxford Sciences
- INKEF
- British Patient Capital
- Porsche SE
- Sony
- IP Group
- Octopus Ventures
- Parkwalk
- NSSIF

## Company HQ

- London

## Employees

- 100



#### Department for Business and Trade

The UK's Department for Business and Trade (DBT) has overall responsibility for promoting UK trade across the world and attracting foreign investment to our economy. We are a specialised government department with responsibility for negotiating international trade policy, supporting business, as well as delivering an outward-looking trade diplomacy strategy.

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