



To Photonics21 Secretariat
via eMail: secretariat@photonics21.org

Dear Photonics21 Secretariat,

We herewith submit the nomination of the following Photonics21 Board of Stakeholders candidate
Fibercore Limited / Dominic Brady.

**- Letter of Nomination -
Photonics21 Board of Stakeholders
Election 2024**

Photonics21 Board of Stakeholders - Letter of Nomination

1. Full legal name of the affiliation nominated as BoS Member (candidate's organisation):

Fibercore Limited

2. Full contact details of the affiliation (street, postal code, country) nominated as BoS Member and invoice address *(In accordance with the Terms of Reference §5, which the Affiliation acknowledges having received, an Annual Service fee will be invoiced every year during the first quarter to the BoS Member. By signing the present letter, the BoS candidate agrees to pay this Membership Fee. The Fee will be considered an asset of the Photonics 21 AISBL in accordance with its statutes (article 12b).)*

Fibercore House
University Parkway
Southampton Science Park
United Kingdom
SO16 7QQ

3. Name of the suggested BoS Representative (the personal candidate)

Dr Dominic Brady

4. Information about the BoS candidate and the BoS representative

a) Description of the activities and information about the expected contribution and value added the nominated BoS member (candidate's organisation) will bring to the BoS¹

Fibercore is a global leader in specialty optical fibre solutions that enable precise sensing and control in the world's most demanding and harsh environments.

With 40 years of history at the forefront of optical fibre technology, Fibercore has contributed to monumental changes in technology and its impacts on people and society.

- If you use the internet or stream movies, then there is a very significant chance that your packets pass through Erbium doped fibre amplifiers that use erbium doped optical fibre designed and fabricated in Fibercore. As well as terrestrial communications, Fibercore fibres are critical in space communications too.
- In a second market of global significance, fibre optic gyroscopes are critical components of inertial navigation systems. Fibercore is the global leader in supply of optical fibre into navigation applications, with our uniquely high-performance high birefringence optical fibre based on a monolithic process.

¹ The candidate is aware and accepts that according to the Photonics21 Terms of Reference (§ 5 (10) a membership fee - as determined by the General Assembly of the Association - needs to be paid to the Photonics21 association.

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- Our fibres help enable Net Zero, and are at the heart of high voltage DC distribution systems, enabling long-distance and efficient power transfer from, for example, off-shore renewables.

Our fibres are found everywhere from the deepest points on the globe, helping optimise oil and gas production, to the surface of Mars. They are sent into the human body.

With this breadth of application domain expertise Fibercore would bring added value from the optical material base into the supply chain discussions at Photonics21. Having been part of many international R&D projects and efforts to impact national priorities in the UK with government and local regions, Fibercore sees a natural fit with supporting the wider European ecosystem and providing input into the future direction and opportunities for the EU industrial landscape.

Through its work, Fibercore has an excellent understanding of photonics technology trends, market demands and opportunities. For Photonics21 and the BoS, Fibercore will provide its knowledge to feed into roadmaps and intervention programs. It will actively promote Photonics 21 and its work and will communicate the importance of photonics technologies through its extensive network and to policymakers.

- b)** Description of the activities and information about expected contribution and value added the BoS Representative (candidate / person) will bring to the BoS.

Dominic is CTO and Managing Director of Fibercore Limited, a fellow of the Institute of Physics and a Chartered Engineer. His experience spans a wide variety of verticals and technology:

- With Full P&L responsibility with Fibercore, together with technology road-mapping successfully leading Fibercore to a series of best ever commercial results in recent years, including selling high margin/high value products against the tide into the low cost economies of the Far East.
- He has worked in Business Development at the CSA Catapult, which is a not for profit technology accelerator intended to enhance the role of compound semiconductors and connect the supply chain. He built multiple large collaboration projects in, for example, quantum technologies.
- He has international experience, leading technology development for optical sensors and well-stimulation technologies in the globally leading Oilfield Services company, Schlumberger. This includes multiple world-first technology deployments.
- Working at Bookham technology on AWG's, he helped silicon photonics meet their first commercial opportunities.
- He holds 17 granted patents
- He holds a PhD in advanced materials for the mid infrared

This broad view allows him to assess the innovation potential of photonics technologies and their potential impact, which he will bring to the BoS. Across his roles, Dominic has worked with companies, universities and research organisations in photonics and quantum

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technologies and is a firm believer in the power of collaboration. As CTO of one of the major global suppliers of speciality optical fiber, he has led the development of new processes and material development projects to develop targeted specifications required for industrial applications and this knowledge of the needs of global companies as customers and the landscape within which they operate will provide key insights to the BoS and Photonics21 in general. He will bring his contacts and network to bear for required input or dissemination activities and would be a keen participant in relevant commercial and technical meetings.