



To Photonics21 Secretariat
via eMail: secretariat@photonics21.org

Dear Photonics21 Secretariat,

We herewith submit the nomination of the following Photonics21 Board of Stakeholders candidate
Heriot-Watt University / Richard Carter.

**- 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):

Heriot-Watt University

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).)*

Institute of Photonics and Quantum Sciences
Heriot-Watt University
Edinburgh Campus
Edinburgh
EH14 4AS
UK

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

Dr Richard Carter

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

The Institute of Photonics and Quantum Sciences (IPaQS) at Heriot-Watt University is one of the largest photonics-based research institutes in a UK university, comprising >200 researchers including 35 academic staff. It has a current externally-funded research grant portfolio of £55M, including 3 major European Research Council awards and is a partner in 3 of the 5 EPSRC Quantum Research Hubs. Research spans the full range of photonics, from fundamental quantum photonics right through to applications of lasers in manufacturing.

As an organisation, IPaQS is very well linked in with both UK national and international photonics research activities, partnering with a wide range of organisations including relevant Fraunhofer Institutes; University of Southampton; University of Cambridge; Toshiba Research Europe; Honeywell; Coherent; Leonardo; Institute for Quantum Optics and Quantum Information Vienna; Technical University of Munich; University of Glasgow and many others. IPaQS is also active in the Association of Industrial Laser Users (AILU) and in the UK Photonics Leadership Group. The ability to tap into this broad network provides the underpinning

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.

Photonics21 Board of Stakeholders - Letter of Nomination

knowledge and understanding of the key future priorities for photonics-based research, in both the academic and industrial research and development communities.

Dr Ruchard Carter has the full support of IPAQS and Heriot-Watt University for this nomination.

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

Dr Richard Carter (Associate Professor at Heriot-Watt University) plays a key role within IPaQS as Academic Lead for Precision Laser Applications. He has a strong track record of research grant winning, in close partnership with industry, and is leading or co-leading grants of total in excess of £5M. In particular he is a keen advocate of applied photonics research as the basis of successful high technology industries. This is exemplified by his current role as Vice President of the Association of Industrial Laser Users (AILU), a not-for-profit organisation that is made up of laser end-users in manufacturing and research, laser job shops, manufacturers of lasers and laser systems, and suppliers of laser-related products and services.

Building on contacts across many organisations both within the UK and across Europe (e.g. TU Darmstadt, Fraunhofer IWS, the University of Bordeaux, NKT and Coherent), Richard is keen to engage further within the European Photonics community. He is also keen to help drive increased UK engagement within European projects, building on the recent agreement signed in September 2023 for the UK to associate with Horizon Europe. He recognises the importance of Photonics 21 within Europe in influencing funding priorities, and is keen to engage more closely with this, in order to maintain and further develop the strong photonics industrial sector across Europe.