



Dear Photonics21 Secretariat

We herewith submit the nomination of the following Photonics21 Board of Stakeholder candidate (organization) / representative (person).

**- Letter of Nomination -
Photonics21 Board of Stakeholders
Election 2018**

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§ 5 BOARD OF STAKEHOLDERS (6) b....A candidate nomination will always contain the name of the candidate organisation together with its proposed BoS Representative, and voting on a candidate implies voting on this combination.

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

LioniX International BV

2. Full contact details of the affiliation (street, postal code, country) nominated as BoS Member and invoice address (in case the candidate is elected, the affiliation needs to pay an annual service fee according the Photonics21 Terms of Reference §5 (10)):

Visiting address: Hengelosestraat 500, 7521 AN, Enschede, The Netherlands.

Invoice address: PO Box 456, 7500 AL, Enschede, the Netherlands.

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

René Heideman

4. Information about the BoS candidate and the BoS representative

Extract Photonics21 Terms of Reference¹: “§ 5 BOARD OF STAKEHOLDERS; ...(6) Election of BoS Members: “Description of the activities of, and information about the added value and contribution to the BoS by both the nominated BoS member and the BoS Representative”

a) Description of the activities and information about the expected contribution and value added the nominated BoS member (candidates organization) will bring to the BoS²

LioniX International BV is a leading global provider of customized microsystem solutions, in particular integrated photonics-based, in scalable production volumes. We provide customized solutions for OEM's and System Integrators, from design to device, by vertical integration in scalable production volumes and maintaining technology leadership secured by strong IP position.

As LioniX International we focus on Photonic Integrated Circuits (PIC) enabled modules based on our proprietary waveguide technology (TriPleX™), in addition to our other core competences micro-fluidics, opto-fluidics and MEMS. As vertically integrated company we deliver a complete solution to our OEM customers: from initial design through volume manufacturing of products.

LioniX International B.V. has been established in April 2016, as a merger between Xio Photonics BV, SatraX BV and LioniX BV, which initiated the technology development of photonic integrated circuits for a suite of applications since 2001.

LioniX International BV will bring to Photonics21 its broad expertise in the field of photonics in general and design, fabrication and assembly of integrated optics in particular, in all its variety of

¹ Photonics21 Terms of reference are available at https://www.photonics21.org/download/about-us/structure/ETP_Photonics21_Terms_of_Reference_C3.pdf?m=1513688127&?m=1499877714

² The candidate is aware and accepts that according to the Photonics21 Terms of Reference a service agreement and a service fee invoice is to be signed / paid with the Photonics21 association.

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applications ranging from telecom, datacom, virtual reality, health- and biomedical applications to sensor array platforms.

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

René Heideman received the M.Sc. and Ph.D. degrees in applied physics from the University of Twente (Enschede, The Netherlands) in August 1988 and January 1993, respectively. He is an expert in the field of MST, based more than 30 years of experience. He specializes in Integrated Optics (IO), covering both (bio-) chemical sensing and telecom applications. He is the inventor of the TriPleX™ technology, (co)author of more than 250 papers and holds more than 25 patents in the IO-field, on more than 15 different subjects.

In 2001 he co-founded LioniX BV. Since 2008, he is CTO of Panthera, a group of high-tech innovative companies focusing on creating new business based on micro/nano-technology. Since June 2012, René Heideman is (visiting) professor Nanotechnology of Saxion University of Applied Science, and is amongst others, board member of MinacNed (Dutch association for micro-systems and nanotechnology).

René Heideman has been BOS member of Photonics 21 since 2014. He will continue to bring to the BoS of Photonics21 his vast experience in the field of photonics in general and in particular in the field of production and assembly and packaging of integrated optics, covering R&D and commercialization.

Final information from the Photonics21 secretariat:

- *We recommend limiting the BoS nomination letter to 3-4 pages max.*
- *Letters of nominations should be either submitted via the Photonics21 website*

<https://www.photonics21.org/bos-election/index.php>

or via e-mail to secretariat@photonics21.org.

- *It is highly recommended to consult the Photonics21 Terms of Reference before submitting the nomination.*
- *Please note that the deadline for providing BoS nominations to the Photonics21 Secretariat is the **21st September 2018**.*