



To Photonics21Secretariat
via eMail: secretariat@photonics21.org

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 2020**

Photonics21 Board of Stakeholders - Letter of Nomination

§ 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):

Ceit-BRTA

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 Service Fee. The Service Fee will be considered an asset of the Photonics 21 AISBL in accordance with its statutes (article 12,c).*

Affiliation:

Ceit-BRTA

**Paseo Manuel Lardizabal 15
20018 San Sebastián**

Invoice Address

Ceit

**Paseo Manuel Lardizabal 15
20018 San Sebastián**

VAT No: ES G20079695

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

Santiago M Olaizola

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 (candidates organization) will bring to the BoS¹

Ceit is a private multidisciplinary non-profit RTO closely connected to TECNUN, the Faculty of Engineering of the University of Navarra (Spain). Its mission is to provide the industry with services through the development of technical research projects and to form young researchers and PhD students. Ceit has a staff of 250 employees (101 doctors) and 46 PhD

¹ 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.

Photonics21 Board of Stakeholders - Letter of Nomination

students. It consists of three vertical divisions (Materials and Manufacturing, Transport and Energy, Water and Health) and a transversal division (ICT).

The Materials and manufacturing division has a group dedicated to laser processes for manufacturing which engages Spanish national companies and European partners in laser-based processes. The activity approach integrates the experience and knowledge of laser technology with a strong materials expertise.

The main research vector of this combined laser and materials approach are aiming mainly into the fields of additive manufacturing and laser precision manufacturing (with ultrafast lasers). In this regard, Ceit was awarded with the single National Excellence project in Additive Manufacturing in 2019 (Project CEFAM (<https://www.ceit.es/en/136-projects/7158-cefam>)). Another relevant activity of Ceit, is the application of laser to produce compact integrated microsensors both in hard substrates such as silicon or alumina for which we produce materials in our class 100 clean room and process them to produce the desired pattern without braking clean room conditions.

Ceit will continue to develop the above technologies and will input the technological needs to push the boundaries of knowledge so that the EU can benefit from the technological developments in these fields.

Ceit is a partner of BRTA (Basque Research Technology Alliance) which is born to meet the industrial challenges of the Basque Country and to compete with the leading international organizations in research and technology development. The BRTA has been created through a collaboration agreement between 16 technology centres and cooperative research centres belonging to the Basque Network of Science, Technology and Innovation. It comprises 3700 researchers, 300 M € investment, 1300 scientific publications and 100 patents yearly. Ceit will disseminate the Photonics21 activities within this rich association which will produce a number of interesting interactions with the different working groups of Photonics21.

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

Dr. Santiago M Olaizola is a researcher and (co)director of the Additive Manufacturing and Laser Group of Ceit. He received his PhD in Engineering in 2000 from the University of Navarra and his PhD in Physics from the University of Sheffield in 2004. He has focused in the field of micro/nanofabrication using pulsed and ultrafast laser sources. He routinely works in close contact with Spanish companies in applications such as metrology, industrial manufacturing and optical sensors. He has been involved in 30+ national and international research projects and is co-author in more than 100 papers and technical contributions to conferences. He is also co-applicant in 7 patents.

Dr Olaizola is usually engaged in basic research to generate novel fabrication approaches and technologies that can be used to produce added value in industry. This has happened

Photonics21 Board of Stakeholders - Letter of Nomination

with a number of ultrafast processes that have been already implemented in the Spanish industry to produce more cost-effective fabrication solutions.

Dr Olaizola is also a well-known national photonics researcher who has a strong link with the university community, assisting to science conferences and engaging PhD students, and also a strong link with national industrial leaders as a member of the board of stakeholders of Fotonica21 (the Spanish mirror group) and Secpho. He was also a regular attendant to WG2 meetings in his last run as BoS member.

Because of these links it is expected that he can produce an educated input in the prioritization of research topics in the photonics platform and he can disseminate the activities of the platform at both the university and industrial level. He will also continue to engage the Eu photonics community as in the last four years.

Final information from the Photonics21 secretariat:

- *We recommend limiting the BoS nomination letter to 3-4 pages max.*
- *Letters of nominations should be submitted electronically 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 **25th August 2020**.*