



To Photonics21 Secretariat
via eMail: secretariat@photonics21.org

Dear Photonics21 Secretariat,

We herewith submit the nomination of the following Photonics21 Board of Stakeholders candidate
RISE Research Institutes of Sweden / Maria Nilsson Tengelin.

**- 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):

RISE Research Institutes of Sweden AB

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).)*

RISE Research Institutes of Sweden AB
Box 857
50115 Boras
Sweden

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

Maria Nilsson Tengelin

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

RISE is Sweden's independent, state-owned research institute and innovation partner, employing approximately 3,300 people. The institutes within RISE aim to enhance the competitiveness of the Swedish business community on an international scale and contribute to a sustainable society through international collaboration programs with industry, academia, and the public sector.

RISE boasts extensive expertise in photonics, conducting applied research and specializing in component and system development. With significant experience in developing, applying, and commercializing photonics solutions across various industries, RISE also operates several large clean rooms and numerous test facilities to support photonics research.

In the field of fiber optics, RISE covers the entire spectrum of fiber optic technologies, from specialty fiber manufacturing and component design to the creation of fiber optic sensors and complete system solutions. At RISE, we develop fiber-optic sensors for applications in healthcare, infrastructure, energy, and the process industry.

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

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Additionally, RISE serves as Sweden's National Metrology Institute (NMI) and, according to the Swedish constitution, is responsible for the central measurement quantities in the International System of Units (SI). RISE coordinates and represents Sweden in international metrological contexts. This includes the National Laboratory for Photometry and Radiometry at RISE, which possesses leading expertise in optical measurements. We perform calibrations, measurements, evaluations, and research within the optical wavelength range.

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

Maria Nilsson Tengelin received her PhD in Physics in 2006 from Chalmers University of Technology for her work on photoelectron spectroscopy on organic semiconductors. She has also worked with development of measurement methods in clinical practice in the department of respiratory physiology at Sahlgrenska University Hospital in Göteborg, Sweden.

Maria currently works as a senior scientist in the above-mentioned National Laboratory for Photometry and Radiometry within the department of Measurement Science and Technology. She specializes in photometry and radiometry measurements including calibrations, testing and research. She has expertise in characterization of optical materials (transmittance and reflectance) and testing of retroreflection and phosphorescence.

She has led various national projects related to light and lighting, including road lighting, the impact of light at night on insects, and drone-based measurements of spill light. Additionally, Maria participates in joint European research projects such as MetTLM "Metrology for Temporal Light Modulation" (WP-lead), MeLiDos "Metrology for wearable light loggers and solar UV dosimeters" (WP-lead) and ETraceAbs "Establishing European traceability for medical measuring devices through optical absorbance liquid filters".

Maria is also active in standardization and participates in several technical committees:

- CIE 2-95 Measurement of obtrusive light and sky glow
- CIE JTC20 Wearable alpha-opic dosimetry and light logging methods, limitations, device calibration and data schemes.
- CEN TC 169/WG 15 Assessment and control of obtrusive light in outdoor spaces.
- CEN TC 226/WG 3 Road Equipment-Vertical Signs