Heinrich-Heine-Universität Düsseldorf
Arbeitsgruppe Photoaktive Materialien
Universitätsstraße 1
40225 Düsseldorf

Jun.-Prof. Dr. Markus Suta
markus.suta@hhu.de

Your reference/ your letter dated	Department	Date
Letter of Intent	**4088 R&D**	**27.03.2026**

Letter of Support: Horizon Europe Proposal "LUMITHERM2.0: High-Performance Luminescence Thermometry for Research and Innovation Excellence"

Dear Jun.-Prof. Suta, dear members of the planned LUMITHERM2.0 project,

with this letter, we would like to express our interest in your project proposal "LUMITHERM2.0: High-Performance Luminescence Thermometry for Research and Innovation Excellence" to optimize the design of luminescent thermometers by using your developed physical models as training data for machine learning approaches.

ams-OSRAM is a global leader in optical solutions. We offer a unique product and technology portfolio for sensing, illumination, and visualization: from prime-quality light emitters and optical components to micro-modules, light sensors, ICs and related software. We continuously advance our technologies in sensing, illumination and visualization to make the world safer, simpler and more efficient. Our vision is to inspire people with innovative light and sensor solutions.

ams-OSRAM International GmbH, a 100% subsidiary of the ams-OSRAM group, has more than 40 years of expertise in research, development, and production of optoelectronic semiconductor components. It currently employs ~2.800 people at our R&D and production site in Regensburg, Germany to drive innovation in various fields of illumination, visualization, and sensing. The major R&D activities focus on visible, ultraviolet, and infrared light-emitting diodes (LEDs) and power lasers, based upon the material systems InAlGaN, InAlGaP and InAlGaAs. ams-OSRAM International has full, in-house production capabilities along the entire value chain (semiconductor frontend- and backend-activities), consisting of facilities for compound semiconductor epitaxy, chip processing, light conversion technologies and device packaging. The company owns 7.500 patents covering the technology for industrial production of electrically-driven- and phosphor-based LEDs and lasers.

As a technology leader in the field of highly efficient and reliable LEDs, we see significant potential in the application of the luminescent thermometers investigated within this project. Providing training data for machine learning approaches helps to improve the design of these thermometers is an important step toward industrial application. Integrated on the lens surfaces of our component cavities or directly within the matrix material, these thermometers could substantially improve and simplify temperature measurement in LEDs. The results of the planned project are of high technological and economic relevance, as they can significantly enhance the precision and reliability of our optoelectronic components, thereby opening up new application opportunities in our target markets of photonics and sensing.

Name	Phone	E-mail	Main E-mail
Elisabeth Hofmeister Global Public Funding	+49 (151) 1451 3421 Main Phone +49 (941) 850-5	Elisabeth.hofmeister@ams-osram.com	sensors@ams-osram.com Internet ams-osram.com

Office address:	ams-OSRAM International GmbH	Managing Directors:	Registered office:
ams-OSRAM International GmbH Leibnizstrasse 4 93055 Regensburg / Germany	Regensburg Chairwoman of the Supervisory Board: Babette Froehlich	Dr. Jörg Strauss (Chairman); Dr. Jörg Schäfer	Regensburg, Germany; Commercial registry: Local court Regensburg, HRB 8522

In view of the high development risk of the underlying technology as well as the still unresolved fundamental questions – in particular with regard to the application luminescent thermometers for temperature imaging in an LED – direct participation LUMITHERM2.0 in is not possible at this early stage of technology development. Nevertheless, we explicitly support your initiative and emphasize the high relevance and future potential of your research for our industry. We wish you every success with your proposal submission and are happy to be available for any questions or further discussions through Dr. Philipp Pust (philipp.pust@ams-osram.com, +49 170 1426327).

Just for clarification it is pointed out that this Letter of Interest is only a noncommittal statement; it is not intended to be legally or otherwise binding and does therefore not constitute a binding contractual commitment or agreement.

Sincerely yours,

Dr. Ulrich Steegmueller
Senior Vice President, R&D
ams-OSRAM International GmbH

Dr. Karin Ronijak
Vice President
Global Public Funding

Name
Elisabeth Hofmeister
Global Public Funding

Phone
+49 (151) 1451 3421

Main Phone +49 (941) 850-5

E-mail
Elisabeth.hofmeister@ams-osram.com

Main E-mail
sensors@ams-osram.com
Internet
ams-osram.com

Office address:
ams-OSRAM International GmbH
Leibnizstrasse 4
93055 Regensburg / Germany

ams-OSRAM International GmbH
Regensburg
Chairwoman of the Supervisory Board:
Babette Froehlich

Managing Directors:
Dr. Jörg Strauss (Chairman);
Dr. Jörg Schäfer

Registered office:
Regensburg, Germany;
Commercial registry:
Local court Regensburg, HRB 8522