



CALL FOR GROUP LEADERS FOR OPTICAL NANOCHARACTERIZATION AT ENSEMBLE³

Centre of Excellence for nanophotonics, advanced materials, and novel crystal growth-based

ENSEMBLE³ is a new Centre of Excellence for nanophotonics, advanced materials, and novel crystal growth-based technologies located in Warsaw, Poland, created jointly by institutions from Poland, Germany, Italy, and Spain. The centre will work on the development of novel material technologies and advanced materials with unique electromagnetic properties, with potential applications in fields such as photonics, optoelectronics, telecommunication, solar energy conversion, medicine, and aerospace.

Applications are welcome from excellent scientists to supervise the Optical Nanocharacterization research group at the Centre. The group will unveil outstanding and useful optical properties at the nanoscale in innovative materials such as those developed at the Centre. It will contribute at demonstrating novel design concepts opening the path to materials and devices with unprecedented performance. A special attention will be paid to: (i) plasmonic, polaritonic, epsilon-near-zero, high refractive index, cavity, and hybrid optical phenomena; (ii) managing the harvesting and emission of light; (iii) controlling and harnessing the propagation, confinement, polarization, and spectrum of light. These properties will be explored across the ultraviolet, visible, and infrared ranges in advanced materials such as eutectic metamaterials or glasses doped with nanostructures. The exploration will be undertaken by state-of-the-art optical spectroscopy approaches (such as s-SNOM, nano- and micro- FTIR, TERS, TEF, time-resolved confocal fluorescence microscopy, micro-spectrometry).

Scientific discipline:	Plasmonics, Metamaterials, Photonics, Optoelectronics, Physics, Chemistry, Material science, or related fields.
Job type:	Full-time employment.
Numbers of job offers:	1
Remuneration/amount/year:	Annual gross salary max. 268 000 PLN (~ 56 000 EUR) depending on experience and expertise.
Position start:	Available from April/May 2023 (Negotiable).
Period of contract agreement:	Permanent contract from the beginning possible based on the mutual agreement.**

Key responsibilities include:

- Establishing and supervising the research group;
- Organizing and carrying out research efforts that will place the centre at the forefront of scientific developments worldwide;
- Collaborating with other groups in the centre;
- Disseminating results to the public and scientific communities;
- Applying for funding;
- Seeking industrial collaborations.

We offer:

- Full-time employment;
- Opportunity to work in an innovative scientific environment;
- International cooperation with experienced researchers;
- Start-up package and funds allocated to running your group and recruiting other group members such as postdocs, PhD, and MSc students;
- Administrative support for recruiting, visa and related documentation;
- Access to well-staffed core facilities.

Required application documents:

Curriculum vitae; Proof of PhD; Research record with a full list of publications; Cover letter specifying how you meet the search criteria and can contribute to the operation of the Centre; Names and contact details of three senior researchers who may act as referees. A short description of a research plan that fits the research agenda of the Centre.

To Apply: Please visit: <http://ensemble3.eu/careers>

Or,

[APPLY HERE](http://ensemble3.eu/careers)

Application deadline: 31st March 2023 (recruitment remains open only until a suitable candidate is found)

Competitive candidates will be interviewed before the appointments are made.

For further information, visit: www.ensemble3.eu

For questions, please contact: recruitment@ensemble3.eu

***We aim for group leaders to jointly develop our centre for a longer time. The Centre is funded through the International Research Agenda of the Foundation for Polish Science, under axis IV of the Smart Growth Operational Programme, Measure 4.3, and the Teaming for Excellence H2020 programme.*

