

PRESS RELEASE

National University of Science and Technology POLITEHNICA Bucharest launches the European MSCA Staff Exchanges project “Confined Nanoreactors for Environmental, Medical and Catalytic Applications”

National University of Science and Technology POLITEHNICA Bucharest announces, as Coordinator, the implementation starting with 01.11.2025 of the European MSCA Staff Exchanges project “Confined Nanoreactors for Environmental, Medical and Catalytic Applications” (NANOEMCA Project ID: 101235833). The NANOEMCA project is funded under the HORIZON1.2 - Marie Skłodowska-Curie Actions (MSCA) Programme and supports international, intersectoral mobility of researchers at different career stages to acquire new knowledge, skills and competences. 16 partners from academia and Small-Medium Enterprises (SMEs) from Europe and Third Countries are involved in the project.


The main objective of the project is to develop a sustainable collaborative exchange between consortium organizations based in Europe and beyond, from the academic and non-academic sectors. New synthesis methods of free and transition metal-loaded mesoporous organosilica confined nanoreactors with different morphologies, large surface areas and large pores will be developed for applications in environmental remediation, pollution control, catalysis, food packaging, biomedicine and biotechnology. Life cycle analysis (LCA) and life cycle costing (LCC) of the synthesis methods will be carried out to assess their economic and environmental impact.

Young researchers participating in the mobility will acquire new skills, knowledge and career development prospects. Senior researchers will exchange good practices with researchers from partner countries, co-supervise PhD students, contribute to the enlargement of the research network and participate in the development of new European research projects. The participating institutions will develop their research and innovation capacities in the field of nanomaterials with advanced applications and will strengthen their international cooperation to establish new strategic collaborations.

The total value of the project is €1,643,280.00 and the project duration is 48 months.

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