



**HORIZON 2020
MARIE SKLODOWSKA-CURIE ACTIONS¹
PARTNER SEARCH FORM**

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| Organization Name / Department | Polytechnic of Međimurje in Čakovec https://www.mev.hr/?lang=en |
| Organization Short Name | MEV |
| Organization Type | <input type="checkbox"/> University <input type="checkbox"/> Public Research Centre <input type="checkbox"/> Large Scale Enterprise <input type="checkbox"/> Small and Medium Scale Enterprise <input checked="" type="checkbox"/> Public Body <input type="checkbox"/> International NGO <input type="checkbox"/> National NGO |
| Research Fields | <input type="checkbox"/> Chemistry CHE <input checked="" type="checkbox"/> Social and Human Sciences SOC <input checked="" type="checkbox"/> Economic Sciences ECO <input checked="" type="checkbox"/> Information Science and Engineering ENG <input checked="" type="checkbox"/> Environment and Geosciences ENV <input checked="" type="checkbox"/> Life Sciences LIF <input type="checkbox"/> Mathematics MAT <input checked="" type="checkbox"/> Physics PHY |
| Sub-Fields / Keywords | <p>ENG - Information Science and Engineering (ENG) G1 - Computer science and informatics Scientific computing and data processing Sensor networks, embedded systems, hardware platforms Bioinformatics, e-Health, medical informatics Artificial intelligence, intelligent systems, multi agent systems Computer graphics, computer vision, multimedia, computer games Numerical analysis, simulation, optimisation, modelling tools Cognitive modelling, cognitive engineering, cognitive sciences Augmented and virtual reality Modelling engineering, human computer interaction Neural networks, connectionist systems, fuzzy logic Pervasive computing, ubiquitous computing, ambient intelligence, internet of things</p> <p>G2 - Systems and Communication Engineering: Electrical, electronic, communication, optical and systems engineering Simulation engineering and modelling</p> |



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| | <p>Optical engineering, photonics Automation Control Engineering Human-computer-interfaces</p> <p>G3 - Products and Processes Engineering: Product design, process design and control, construction methods, civil engineering, energy processes, material engineering Computational engineering and computer aided design Civil engineering Industrial design (product design, ergonomics, man-machine interfaces, etc.) Architecture, smart buildings, smart cities, urban engineering Transport engineering, intelligent transport systems Lightweight construction, textile technology Mechanical and manufacturing engineering (shaping, mounting, joining, separation) Production technology, process engineering Materials engineering Environmental engineering and geotechnics Sustainable design (for recycling, for environment, eco-design) Energy systems, smart energy, smart grids, wireless energy transfer Energy collection, conversion and storage, renewable energy Industrial bioengineering</p> <p>ENV - Environmental and Geosciences (ENV) V1 - Environment and society Mobility and transportation Clean technologies, circular economy, life cycle assessment Environmental risk assessment, monitoring Social and industrial ecology, sustainable development Waste, by-products and residue management (including from agriculture)</p> <p>V2 - Earth system science Atmospheric chemistry, atmospheric composition, air pollution, indoor air quality Pollution (water, soil, sediment), rehabilitation and reconstruction of polluted areas, clean technologies</p> <p>V4 - Applied Life Sciences and Non-Medical Biotechnology Environmental biotechnology, bioremediation, biodegradation Biomass and biofuels production</p> <p>LIF - Life Sciences (LIF) L2 - Genetics, Genomics, Bioinformatics and Systems Biology Bioinformatics MAT - Mathematics (MAT)</p> |
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| | <p>PHY - Physics (PHY) P2 - Atomic and molecular physics, optics Metrology and measurement Atomic physics Molecular physics</p> <p>P5 - Applied physics Optical engineering</p> <p>SOC - Social Sciences and Humanities (SOC) S5 - Cognition, psychology, linguistics Ergonomics, human factors, user modelling, and neuroergonomics</p> |
| <p>Marie Skłodowska-Curie Action(s) of interest?</p> | <p><input checked="" type="checkbox"/> European Training Networks (ITN-ETN) <input type="checkbox"/> European Industrial Doctorates (ITN-EID) <input type="checkbox"/> European Joint Doctorates (ITN-EJD) <input checked="" type="checkbox"/> Research and Innovation Staff Exchange (RISE) <input checked="" type="checkbox"/> Individual Fellowships (IF)</p> |
| <p>Short Description of the Organization / Department</p> | <p>The Polytechnic of Međimurje in Čakovec was established by a Decree of the Government of the Republic of Croatia on 12 November 2007, and the rights and obligations of the founder are performed by the Ministry of Science, Education and Sport.</p> <p>The Polytechnic of Međimurje in Čakovec is a higher education institution which represents the centre of excellence for highly specialised, professional and scientific work, which is implementing a quality and effective education based on the concept of lifelong learning, responsibility for the knowledge as public goods, mobility and development of human resources as the most important society value. Active cooperation with industry, partnerships for further development of the community, involvement in the European Higher Education Area and the European Research Area and the high level of its organisation structure, the Polytechnic will show its public responsibility and contribute to the transition into the society of knowledge. The Polytechnic of Međimurje in Čakovec will be the institution that promotes mobility and development of entrepreneurial energy and talent of each individual (teachers, assistants, administrators and students). High flexibility of the studies and introduction of new study programmes with the aim of education of highly skilled professionals needed for the economy in the region will remain one of the fundamental features of the Polytechnic of Međimurje in Čakovec.</p> |
| <p>Previous Related Projects / Research Experience</p> | <ul style="list-style-type: none"> • EU project: "Center of sustainable development" • EU project: Network of "live" castles as a form of sustainable tourism for the preservation and promotion of cultural heritage |

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| | <ul style="list-style-type: none"> • EU project: "Vulnerable groups inclusion encouragement in the tourism and catering sector of the labor market by applying an innovative approach" • EU project: "Sustainable study" • EU project "A Supportive System of Expanded Reality in the Outside for Enrichment of Tourist Content" • I3CT Crossborder Clustering |
| Short Description of the Project idea (if foreseeable) | <p>Please include us as partners.</p> <p>Our primary goal is to connect and network with professionals and educators.</p> |
| Related MSCA Call | RISE |
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ⁱ **The Marie Skłodowska-Curie actions (MSCA)** provide grants for all stages of researchers' careers - be they doctoral candidates or highly experienced researchers - and encourage transnational, intersectoral and interdisciplinary mobility. The MSCA enable research-focused organisations (universities, research centres, and companies) to host talented foreign researchers and to create strategic partnerships with leading institutions worldwide.

Innovative training networks (ITN) bring together universities, research centres and companies from different countries worldwide to train a new generation of researchers:

- **European Training Networks (ETN)** - The aim is for the researcher to experience different sectors and develop their transferable skills by working on joint research projects in and/or outside academia.
- **European Industrial Doctorates (EID)** - The aim is for the doctoral candidates to develop skills inside and outside academia that respond to public and private sector needs.
- **European Joint Doctorates (EJD)** - The aim is to promote international, intersectoral and multi/interdisciplinary collaboration in doctoral training in Europe.
- **Individual Fellowships (IF)** support the mobility of experienced researchers within and beyond Europe - as well as helping to attract the best foreign researchers to work in the EU.

Research and innovation staff exchange (RISE) supports short-term mobility of research and innovation staff at all career levels, from the most junior (post-graduate) to the most senior (management), including also administrative and technical staff. It is open to partnerships of universities, research institutions, and non-academic organisations both within and beyond Europe.

More information available on:

<http://ec.europa.eu/programmes/horizon2020/en/h2020-section/marie-sklodowska-curie-actions>