

Call for expression of interest
Marie Skłodowska-Curie Postdoctoral Fellowship
(MSCA-PF-2022)

The University of Split hereby welcomes expressions of interest from excellent researchers who intend to apply for MSCA PF 2022. MSCA applicants will have the opportunity to work as a part of our research groups and they will receive mentoring from the UNIST supervisor and administrative support from the Science Office.

The University of Split, as an HRS4R award holder, supports excellence in research and innovation through the implementation of HR Strategy for Excellence in Research and endorsement of the Charter of Code for Researchers and ALLEA. The University has a long record of experience in implementation and supporting the implementation of projects co-financed from the European Social Fund and the European Regional Development Fund, as well as European Union programs: Horizon 2020, Erasmus+ (Key Activities 2 and 3), Interreg, EuropeAid, etc. At the moment, there we have 120 ongoing projects, either funded from national sources, such as the Croatian Science Foundation and the Ministry of Science and Education, or EU programs and funds. For several years now, the University of Split is continuously taking part in academic ranking, and it accomplishes high results both on a national and international level. As Times Higher Education Impact Ranking results for 2021 show, the University of Split, as the only Croatian university on the list, was ranked for 10 out of the total 17 United Nations Sustainable Development Goals. As a confirmation of the University's dedication to Open Science principles, in 2020, as a part of the U-multirank World University Ranking, it has been ranked as one of the Top 25 Performing Universities in Open Access Publications.

At the University of Split, there are more than 19,000 students, along with 800 foreign and exchange students, enrolled across 81 undergraduate, 87 graduate, 5 postgraduate vocational, and 21 doctoral programs. The degree programs are designed in a way to facilitate job market entry for our students and to encourage them to take part in life-long learning activities.

Supervisor's profile:

Science field:	Natural science
Supervisor:	Vlasta Bonačić-Koutecky, PhD, dr. h. c., Full Professor
Research keyword:	theoretical, physical, chemistry, nanocluster based catalysis, optical properties, biosensing, solar cells, hydrogen storage, transparent luminescent concentrator
Supervisor's CV	Vlasta Bonačić-Koutecky, PhD, dr. h. c., Full Professor
ORCID number:	0000-0001-6142-5932
Research ID:	AAK-2162-2021

Google Scholar ID:	https://scholar.google.co.uk/citations?user=L0KYNOwAAAAJ&hl=en&authuser=1
Personal web-page link:	https://stim.unist.hr/en/home/

STIM-REI – (Research, Education, Innovation)

[STIM-REI](#) is a project at the Center of Excellence for Science and Technology – Integration of Mediterranean Region (STIM). It connects research (R), innovation (I), and education (E) through three project elements based on the international excellence of scientists and choice of research topics that are of critical importance for the needs of society.

STIM-REI focuses on advanced technology on the nanoscale, water, and environment, and education. Advanced technology on nanoscale focuses on advances in renewable energy and medical diagnostics, by developing new materials for fuel and solar cells and by designing novel nanostructured materials for biosensing and biomedicine. The water and environment category includes research on pollution transport dynamics, the monitoring and impact of climate change on coastal areas, and marine life through the characterization of biologically active substances and biofilms. The third category, education, focuses on the fundamental scientific education of young researchers and the transfer of knowledge and technology through the innovative connection of research results and their application with the purpose of promoting the flexibility, creativity, and entrepreneurial mindset of young researchers.

Supervisor's research area includes:

The major research areas: Chemistry and physics of metal clusters and cluster-biomolecule hybrids; theoretical photochemistry and photophysics; development of cluster-based catalytic; optical and biosensing materials.

Present research directions: Development of new generation of nanostructured biosensing materials; metal clusters for optical detection of biological aging; development of new materials for solar cells; design of new catalytic materials for fuel cell feed gas purification and hydrogen storage.

Infrastructure is available within the STIM REI project: high-performance computation cluster devoted to the present research directions.

Selected participants will receive mentoring support from Prof. dr. dr. h. c. Vlasta Bonačić-Koutecký, while the Science Office will provide them with administrative support during the proposal writing and submission process.

Prospective candidates should be in possession of a PhD degree and must not reside in Croatia for more than 12 months in the last 3 years. We are kindly asking you to send your curriculum vitae, along with the *One-page proposal* (available [here](#)), directly to the supervisor of your choice, in this case, prof. dr. dr. h.

c. Vlasta Bonačić-Koutecky (vbk@stim.unist.hr) with adding znanost@unist.hr in e-mail copy. As a subject, please indicate “MSCA_PF_2022_mentoring_candidate name and surname”.