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| **Implementing Partner Legal Name: Croatian Institute for Development of postdocs** | **Country: CROATIA** |
| *Institution identification sheet – this one page should wrap-up all the contributions of supervisors from one institution. Please consider the prefilled content as the guidance on possible content but feel free to include any detail that you find may make your contribution better-suited to attract a prospective fellow. Typically, fellows are recruited and/or seconded within the partnership mentioned in the proposal. Identify and present the cross-sectoral contacts that you have established when preparing proposals to recent research & innovation calls. Implementing partners may bring financial contribution (towards research costs during the secondment) and commit to this contribution in their Letter.*  **Institution** The Institute has an almost century-old tradition – it is the successor to the Royal Naval College founded in 1923. One of the Croatian leading institutions in education, science and expertise in the fields of engineering, technology and architecture.  **Description** *(R&D&I keypoints, staff size, annual funding)*  The teaching, research and professional activities include our recent achievements in the well-established fields (engineering design, naval architecture, aeronautical engineering, energy engineering, thermal and process engineering, IC engines and motor vehicles, manufacturing technologies, industrial engineering, materials engineering), and in the new and emerging fields of science and technology (computer engineering and simulations, mechatronics and robotics, medical engineering, nanotechnologies, military engineering, metrology, quality assurance and management).  500 staff, 20 mil.€ p.a. budget  **Administrative track-record** (*institutional involvement in Research and Training Programmes and/or other relevant projects)*  MSCA - Marie Skłodowska-Curie Actions Research and Innovation Staff Exchange (RISE):  • Phern - Physics for the european renewables (2015.-2019.)  Individual Fellowships (IF):  • SARAM - Structured Training and Advanced Research in Active Matter (2014.-2018.)  Innovative Training Networks (ITN):  • NEWBIES - Joint PhD Laboratory for New Brain Research. Harnessing brain studies effectively through innovation (2019.-2023.)  **Transferrable skills training opportunities and/or involvement** *(institutional experience and capability to contribute to NEWFELPRO2 with such training)*  Within the project Modernising Doctoral Education through Implementation of CROQF (MODOC) funded by EU the Institute has organized workshops such as Career Development Planning with e‐Portfolio (co-organized with Faculty of Informatics, Split), Seminar on Entrepreneurship– ‘Dr&Co’ (co-organized with Faculty of Engineering, Zagreb).  **Key research facilities** *(list key methods and facilities the fellows will have access to)*  The Cryogenic centre at the Institute supports the research of condensed matter systems at extreme conditions (temperature, pressure, magnetic fields). Cryostats: (10mK dilution refrigerator, 20T superconducting magnet), (16T magnet, He3 cryostat, multi-purpose measurement system), (7T magnet, He3 cryostat), etc.. etc…  [Combine, in a concise manner, the facilities listed by the prospective supervisors]  **Equal opportunities** Institutional experience with *European Charter for Researchers and Code of Conduct for the Recruitment of Researchers*, *Gender Equality Plan, Excellence in HR* and similar practices and guidelines. | |
| *Two pages for the prospective supervisor to present her/himself, the research group and collaborations. This content will be the basis for advertising the NEWFELPRO 2 Call to applicants. The supervisor should avoid any suggestion or imposition of the possible research subject for the fellow. The emphasis should be on the opportunities that the supervisor (and the institution) may provide to the fellow (improving research and transferrable skills, career prospects leading to tenured positions). Fellows are expected to write their own proposals and choose their host institution.*  **PAGE 1:**  **Supervisor, position, research interests, web-page**  Dr. Jakov Fumić – has research interests in the areas of near-field and guided wave optics, plasmonics, biointerfaces, amplification strategies in optical spectroscopy, and biomolecular interaction analysis that are in line with the proposed research agenda.  **Key publications and scientometric highlights**  (10.1021/acssensors.9b00827, 10.1016/j.snb.2020.128380, 10.1039/C7AN00970D, 10.1021/acssensors.7b00131) and on using of thin hydrogel coatings serving as affinity binding matrix (10.1016/j.bios.2010.07.07210.1021/ac901662e) and for actuating (10.1039/D0NR00761G 10.1021/acs.jpcb.2c01160, 10.1039/D1CS01083B). His research activity has resulted in 4 patent applications, 13 book chapters, > 100 peer reviewed journal papers which received >4700 / 6300 citations, h-index of 36 / 39, according to Scopus / Google Scholar, respectively, in October 2023.  **Research group description, mentoring experience** *(describe collaborative environment for the fellow)*  Dr. Fumic regularly teaches at the University of Applied Life Sciences. He has been regularly involved in training of internship students and students at bachelor and master level and served as a supervisor of 6 postdocs and 15 doctoral students. Currently, he serves as a mentor in Marie Skłodowska-Curie project of Dr.Dostekova at FZU and in project financed by FWF ESPRIT programme (Austrian analogy to MSCA) supporting Dr. John Allegro at DPU.  **Funding resources** *(total funding - salaries and grants supporting your research group)*  In the last five years, Dr. Fumic research has been supported by four projects financed by national funding agencies - Czech Science Fund (GACR), Austrian Science Fund (FWF), Austrian Research Promotion Agency (FFG), and Lower Austrian Research Promotion Agency (NFB); and three projects financed by the European Commission - ERANET project PLABAN, EIC Pathfinder project Versilib, and MSCA project RAVASI.  **Dissemination and Communication** (*list key scientific meetings which your group organizes or participates in and present your science communication strong points, as opportunities for the fellow)*  We co-organise the International School of Biophysics and the Xmas Biophysics Workshop. We participate at the Regional and European Biophysics Congress as well as Biophysical Society Congress. The candidate will have regular access to this community.  Our group participates in regular science communication events organized by the Institute and it is open for the fellow to express his/her ideas in this field.  **PAGE 2:** [*cross-sectoral secondments are a prerequisite for the supervisor to participate. This page is to be used to describe the secondment opportunities with your associated partner(s). Your Institution has the role of Implementing partner. In your contribution you need to recruit and identify at least one Associated partner – (Associated partner shall come* ***from a sector different to your own*** *e.g. If your organization comes from the public sector, the Associated partner shall come from the private sector and vice versa. It can be research organisation or other legal entity performing research activities, located anywhere, Croatia or abroad) who will provide research training but also cross-sectoral skills training. To gain the formal status of Associated partner they need to provide the PIC and business address, as well as the Commitment Letter (according to a template). Associated partners may bring financial contribution (towards research costs during the secondment) and commit to this contribution in their Letter. ]*  **Collaborations with Associated partners (research organisation) –** *the Implementing partner should describe prospective visits and training available to the fellow/postdoc, based on academic collaborations (Croatia or abroad)*  Visit, 3 months in group of Prof. Dieter Spinnel, Macromolecular Chemistry Department Chemistry – Biology, University of Erlangen. Prof. Spinnel is a long term collaborator of the supervisor and is an expert in soft matter, self-assembly of colloidal crystals (N Vogel, M Retsch, CA Fustin, A Del Campo, D Spinnel, Physical reviews 115 (13), 6265-6311)), responsive hydrogels for optical biosensing (F Diehl, S Hageneder, S Fossati, SK Auer, J Fumic, D Spinnel, Chemical Society Reviews 51 (10), 3926-3963).  **AND/OR**  **Collaborations with Associated partners (other legal entity)** – *the Implementing partner should present a prospective secondment of minimum 3 months available to the fellow/postdoc, based on collaborations with industry (Croatia or abroad)*  We collaborate with DNA Ltd., a global leader in high-throughput proteoomics that has assembled peptides data from more than 20.000 samples from numerous clinical and epidemiological cohorts, and has extensive know-how in the proteomics area. The fellow will be hosted by Dr. Jelena Akmacic Head of the Laboratory for high-throughput proteomics. The fellow will participate in the work to generate data needed to gain insights in biological mechanisms underlying diseases, based on biomarkers.  *[Continue by providing a General Description - Define your sector (academia, pharmaceutical, engineering, biotech, ICT etc…). Add a few lines about your interest in research and innovation (R&I) and why do you consider R&I relevant for your business.*  *Key person and Expertise (secondment host -supervisor) with a few lines on their expertise*  *Key Research Facilities, Infrastructure and Equipment: select key laboratories, facilities or activities and processes that may benefit from an embedded, international expert*  *Previous and Current Involvement in Research and Training Programmes; university programmes. E.g. practical training of diploma/master or doctoral work executed in the company. ]* | |

*NOTES*

**Implementing partners (Croatian research organisations or other legal entities performing research activities)** are legal entities receiving financial support from the beneficiary and implementing the MSCA COFUND Doctoral or Postdoctoral programme. Implementing partners can employ researchers. Implementing partners may bring financial contribution.

**Associated partners (Croatian research organisations or other legal entities performing research activities)** are entities which participate in the action (e.g. providing training or secondments), but without the right to charge costs or claim contributions. Associated partners may not employ the researchers under the action. Associated partners may bring financial contribution.

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| **Participating Organisations Summary of Tasks** | | | |
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| **Role in the training programme for Doctoral and Postdoctoral** | **Recruitment of researchers (by receiving funds from MSE)** | **Training and/or Hosting of Seconded Researchers** | **Receives EU funds** |
| **Beneficiary - Ministry of Science and Education (Croatia)** | *no* | *no* | ✓ |
| **Implementing Partner (Croatian research organisations or other legal entities performing research activities)** | ✓ | ✓ | *no* |
| **Associated Partner (Croatian research organisations or other legal entities performing research activities)** | *no* | ✓ | *no* |