REPUBLIKA SLOVENIJA
MINISTRSTVO ZA VISOKO ŠOLSTVO, ZNANOST IN INOVACIJE

MSCA DOCTORAL NETWORKS CALL 2025

Stojan Sorčan, MVZI
NCP MSCA

Univerza v Mariboru, 11. junij 2025

MREŽA NACIONALNIH KONTAKTNIH TOČK
Obzorje Evropa

2024 – 2025 ZNANOST!
EVROPSKA NOČ RAZISKOVALCEV

HORIZON EUROPE

2024 – 2025 ZNANOST! EVROPSKA NOČ RAZISKOVALCEV

Main goals of the programme:

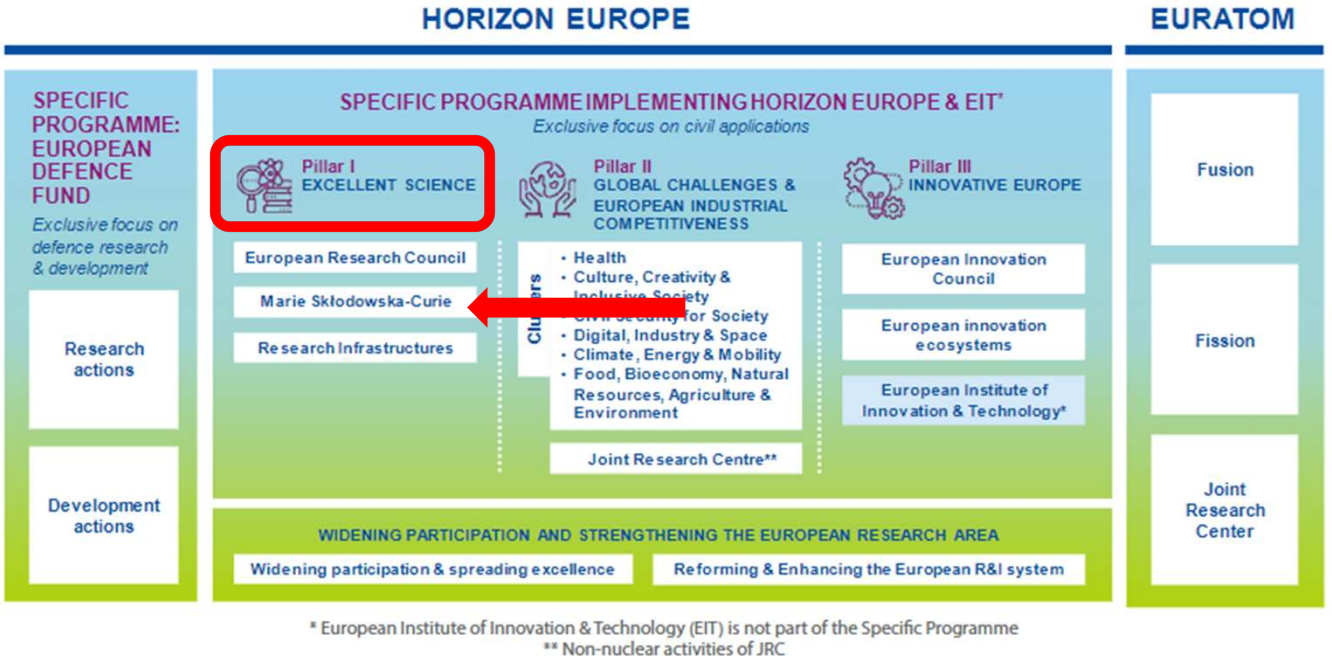
Maximise its impact and deliver on the **EU's strategic priorities**, such as the recovery, green and digital transitions, and tackles global challenges to improve the quality of our daily lives.

Enhance access to excellence for researchers across Europe to foster participation and collaboration.

Foster the EU's industrial competiveness and its innovation performance, notably supporting market-creating innovation via the European Innovation Council and the European Institute of Innovation and Technology.

Strengthen EU science and technology by increasing **investment in highly skilled people and cutting-edge research**

!



Horizon Europe will have a budget of **around €95.5 billion** for 2021-2027 (current prices).

The Marie Skłodowska-Curie Actions

Since 1996

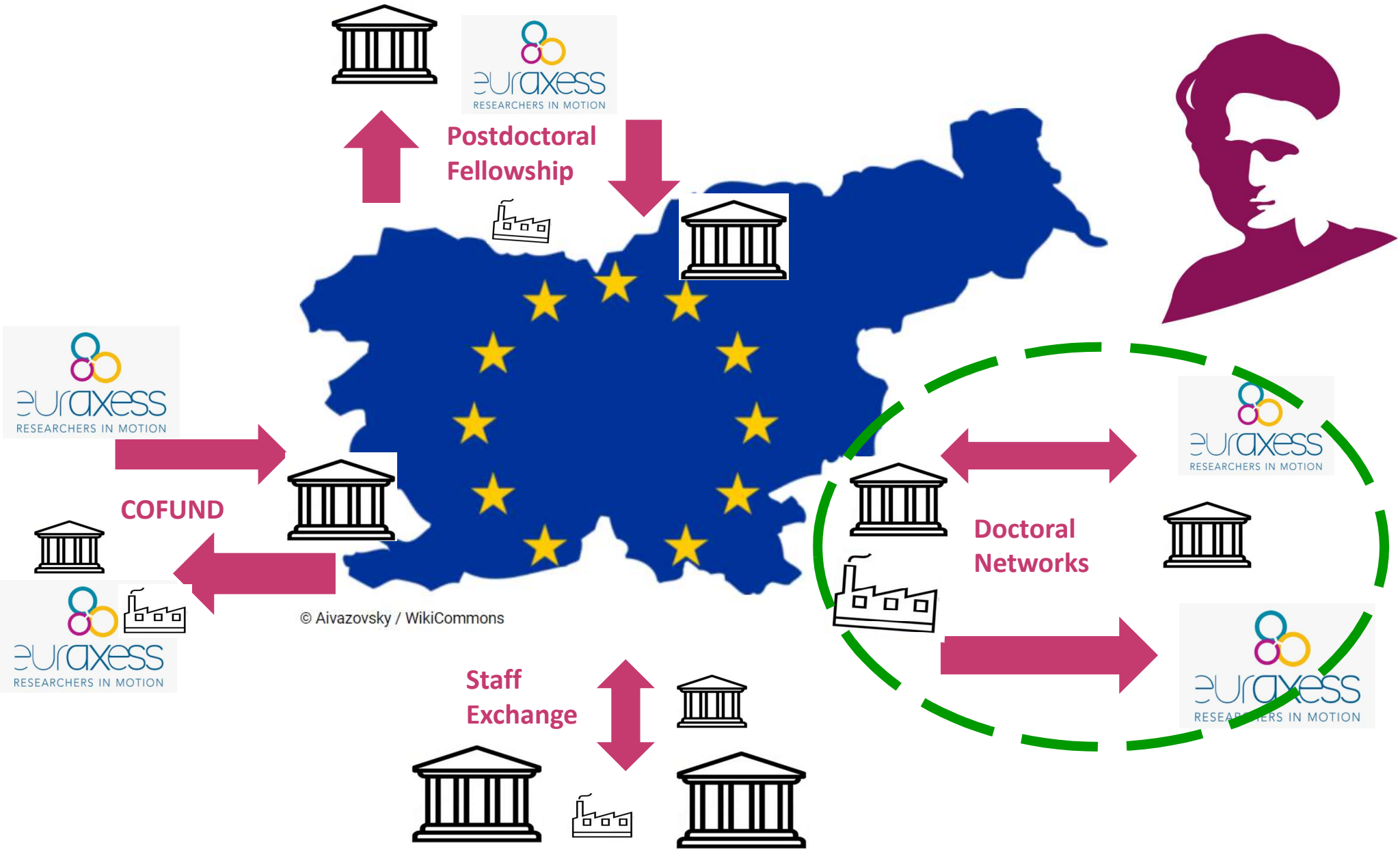
Researcher Training and Mobility

International and Inter-Sectoral

150,000 +

Bottom-Up Approach

European Commission


Postdoctoral
Fellowship
COFUND
Doctoral
Networks
Staff
Exchange
© Aivazovsky / WikiCommons

How to apply?

If you are a supervisor in an organisation

build a consortium with other academic and non-academic partners and submit a proposal to the EC.

If you are a PhD student

search for a position published by a successful DN project and apply to the host organisation directly.

euraxess
RESEARCHERS IN MOTION

What is a MSCA DN project?

One consortium

Proposing a research project

With interlinked individual PhD research projects

For doctoral candidates

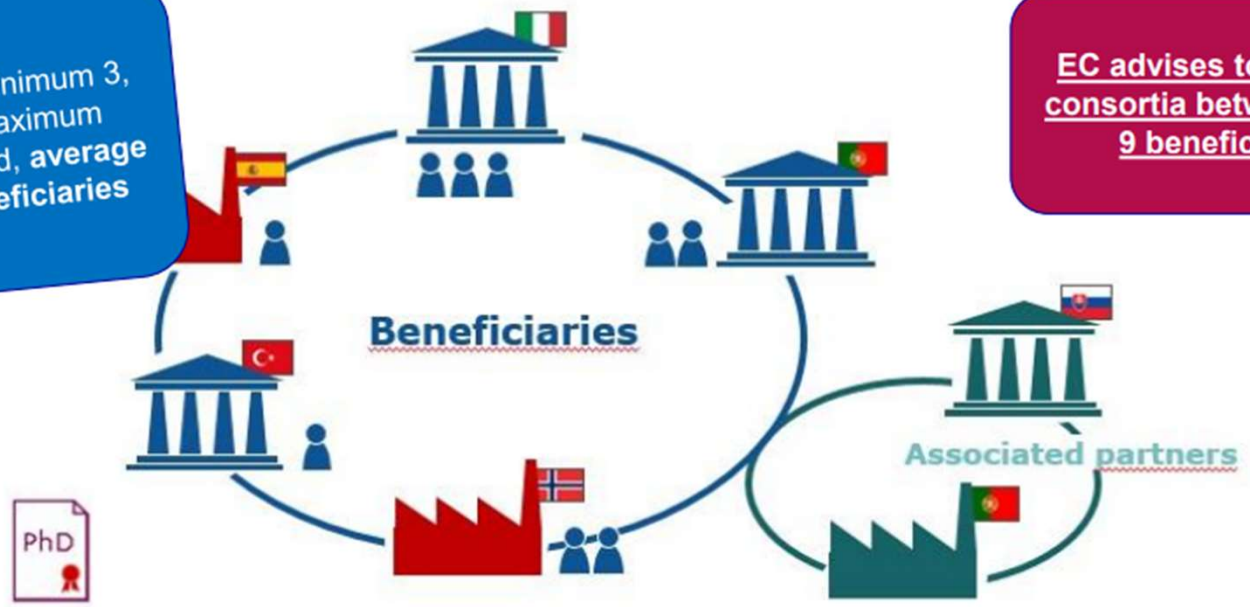
European Commission

Doctoral Network – example consortium

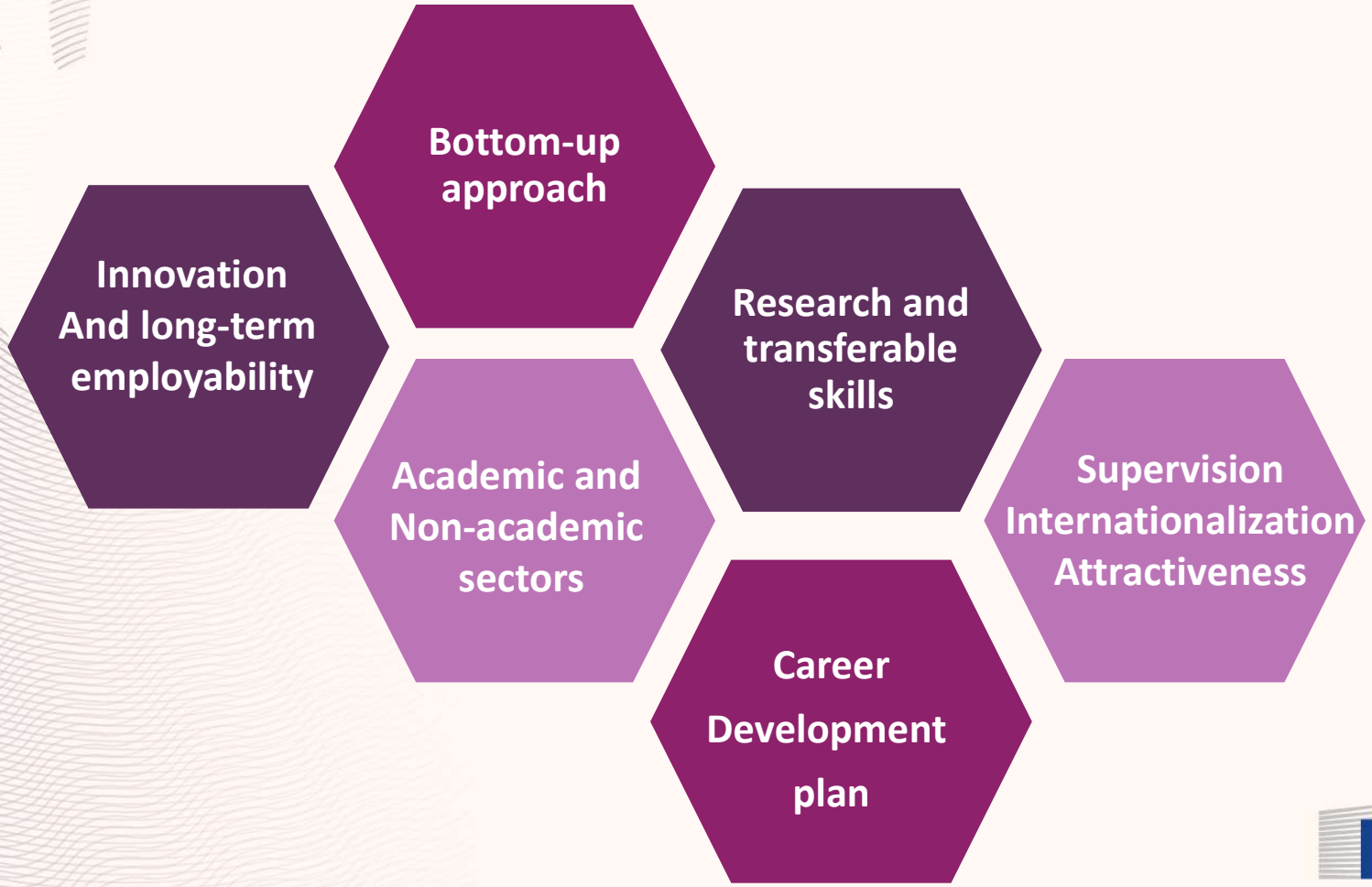
MSCA-NET

DNs: minimum 3, no maximum indicated, **average 7 beneficiaries**

EC advises to keep the consortia between 6 and 9 beneficiaries



MSCA DN
Main features



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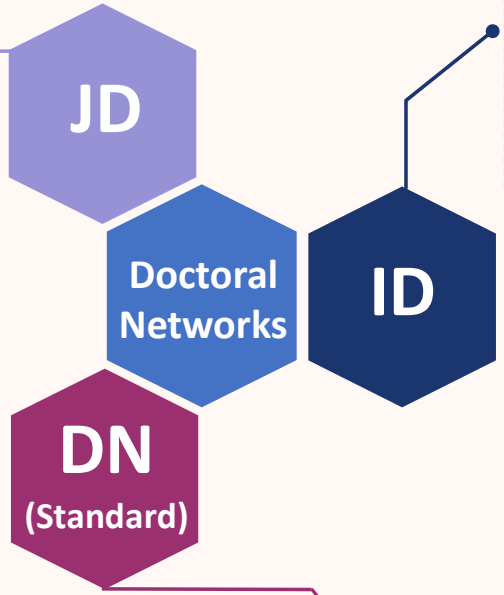
MSCA DN
Types of action



Joint Doctorates

- Joint collaborations leading to a joint/multiple doctoral degree;
- Pre-agreement for joint degrees required;
- Joint selection and supervision.

Industrial Doctorates

- Training in academia and industry.
- Joint supervision.

Doctoral Networks (standard)

Training in academia and/or industry.

All 3 modes compete within the same scientific panels:
LIF, MAT, MAT, PHY, ECO, SOC, CHE, ENG, ENV.

European Commission

MSCA DN
Types of action

	DN (Standard)	ID (Industrial Doctorates)	JD (Joint Doctorates)
Project duration	48 months		Max 60 months
DC contract	Max 36 months	Max 36 months (50% in the non-academic sector)	Max 48 months
Secondments	Max 1/3 of the fellowship	No limitation of secondment duration	
PhD	All DCs enrolled in a PhD from a MS/AC		Enrolled in PhD from min. 1 MS/AC

European Commission

MSCA DN Funding

Contributions for recruited researchers Per person-month					Institutional unit contributions Per person-month	
Living allowance	Mobility allowance	Family allowance** (if applicable)	Long-term leave allowance (if applicable)	Special needs allowance (if applicable)	Research, training and networking contribution	Management and indirect contribution
EUR 4010*	EUR 710	EUR 660	EUR 4720 x % covered by the beneficiary	Requested unit[1] x (1/number of months)	EUR 1600	EUR 1200

*A country correction coefficient applies to the living allowance in order to ensure equal treatment and purchasing power parity for all researchers
** A family allowance to contribute to mobility-related costs of researchers with family obligations which can be granted during the project.

[1] The pre-defined categories are as follows: EUR 3 000, EUR 4 500, EUR 6 000, EUR 9 500, EUR 13 000, EUR 18 500, EUR 27 500, EUR 35 500, EUR 47 500 and EUR 60 000.

European Commission

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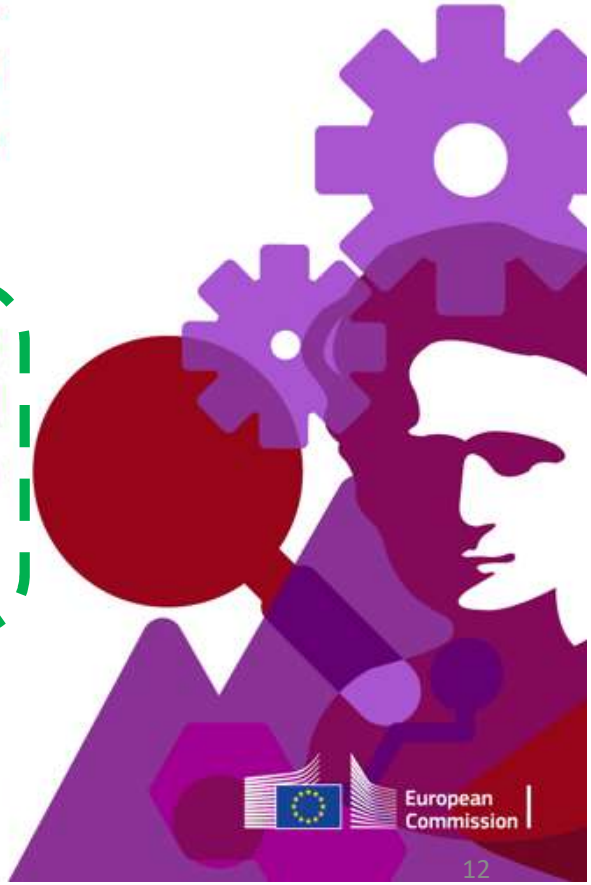

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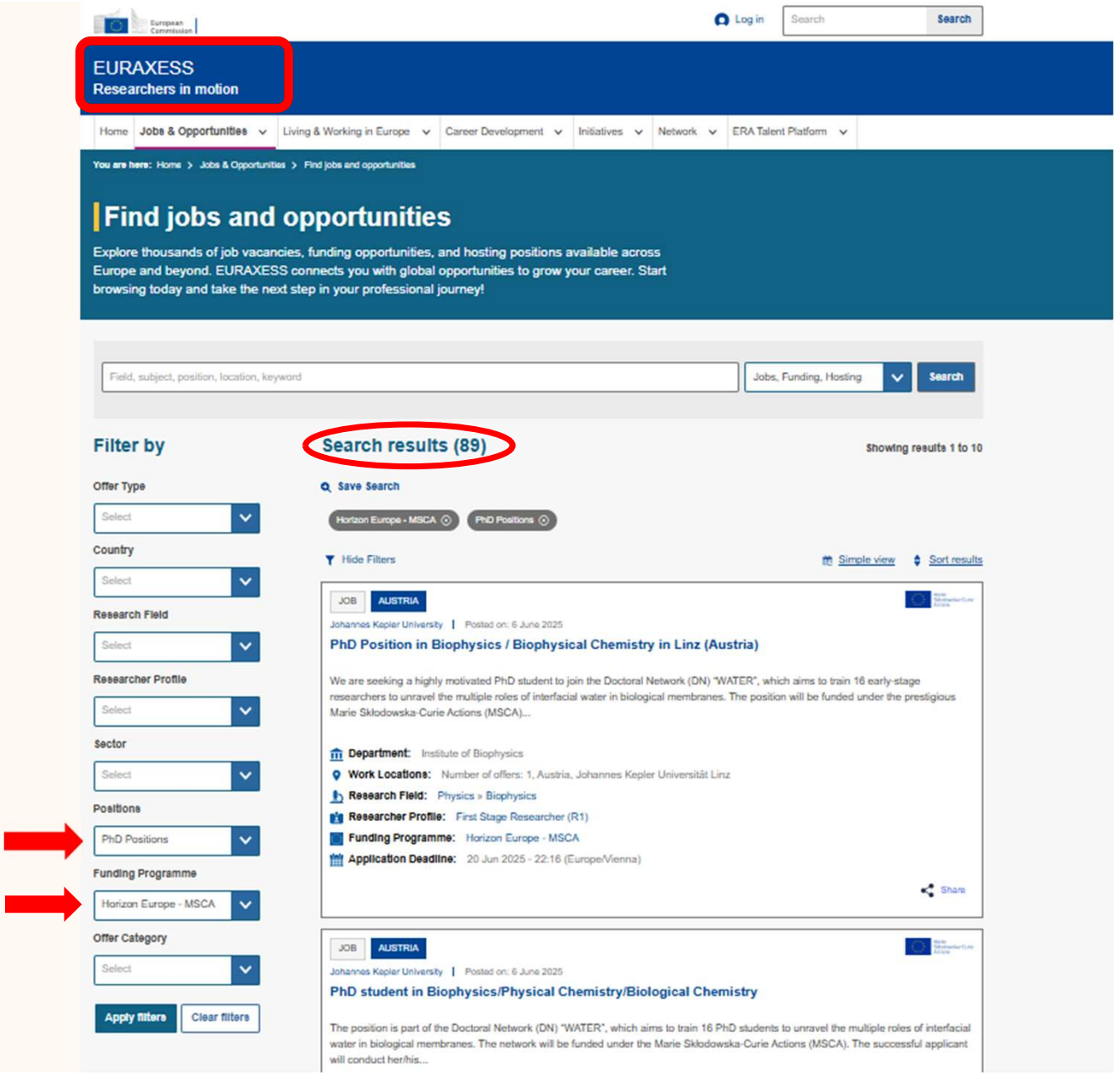
RESEARCHERS IN MOTION



European Commission

JOB ITALY

CNR ISC | Posted on: 5 June 2025

PhD position on Development of Laser Transmission Spectroscopy method for lipid nanovectors within the MSCA-DN CLIMB project

We are looking for an excellent, motivated and team-oriented Doctoral Candidate for a 36 months fellowship with a background in biophysics, applied physics or chemistry.Project Description:The CLIMB Doctoral Network brings together leading European research laboratories with complementary expertise...

Work Locations: Number of offers: 1, Italy, Consiglio Nazionale delle Ricerche/Institute for Complex Systems, Rome, 00185, Piazzale Aldo Moro 2

Research Field: Physics » Optics
Physics » Biophysics
Physics » Applied physics
Chemistry » Physical chemistry
Chemistry » Instrumental techniques

Researcher Profile: First Stage Researcher (R1)

Funding Programme: Horizon Europe - MSCA

Application Deadline: 20 Jun 2025 - 23:00 (Europe/Rome)

Share

ViroiDoc na prvi pogled

Viroidi in viroidom podobne RNA

Nalezljive enojne krožne molekule RNA

Premalo raziskani, razširjeni in hitro razvijajoči

Grožnja pridelkom in svetovni prehranski varnosti

Viroidne bolezni vplivajo na pridelek in kakovost zelenjave, sadnega drevja, hmelja, konoplje, vinske trte, kokosovih in oljnih palm ter povzročajo škodo v milijonih EUR.

Mednarodna trgovina in globalno segrevanje vplivajo na dinamiko patogenov (pojavnost, razširjenost gostiteljev, resnost bolezni)

Usposabljanje ViroiDoc

Strokovno znanje molekularne biologije, genetike in genomike, NGS in bioinformatike, integracije omike, fenotipizacije, tehnologij senzorjev in CRISPR/Cas

Usposobljenost za programiranje, strojno učenje, statistiko, vizualizacijo in upravljanje podatkov, komuniciranje o odprti znanosti, vodenje projektov, pridobivanje projektov in štipendij

Osnove pravic intelektualne lastnine in podjetništva

Ambicija ViroiDoc

1. Odpravljanje vrzeli v znanju (molekularna patogeneza, interakcije z dejavniki gostitelja, transport)
2. Izdelava ocen tveganja
3. Razvoj rešitev za terensko diagnostiko na podlagi CRISPR/Cas in senzorjev ter slikanje viroidov v živo
4. Zagotavljanje ukrepov proti viroidom: tarče za razvoj odpornosti, spodbujevalci rastlinske imunosti, biopesticidi na osnovi RNA, protiviroidni terapevtiki

Vpliv

Spodbujanje kariere na področju raziskav, razvoja tehnologij in storitev v kmetijskih sistemih, biomedicini in biotehnologiji

Odlično okolje na področju raziskav in inovacij v EU ter trajnostno sodelovanje

Ozaveščanje javnosti o tveganjih in priložnostih povezanih z viroidi in viroidom podobnimi RNA

Priporočila za politiko varnosti hrane, strategije za obvladovanje bolezni

Omrežje

Mednarodno, interdisciplinarno in medsektorsko

11 Držav

16 Akademskih ustanov – Znanstveno in tehnološko usposabljanje

6 Industrijskih partnerjev – Usposabljanje za prenosljive spretnosti, mehke veščine in raziskovalne napotitve

ViroiDoc

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ViroiDoc

Advanced Research on Viroid Pathogenesis and Control for Agricultural Sustainability

GET IN TOUCH

ViroiDoc is a **doctoral network that comprises academic institutions and industry partners** from Slovenia, Italy, Spain, France, Greece, Germany, Switzerland, the Czech Republic, Poland, the United States, and Argentina. Collectively, they offer an exceptional **interdisciplinary research and innovative training** environment for 10 doctoral students, equipping them with the expertise to advance their careers in research, product and service development in agriculture, biotech, and biomedicine. ViroiDoc is committed to **comprehensively understanding and addressing the challenges posed by viroids** in alignment with the **European Green Deal and the Farm-to-Fork strategy for sustainable crop production and food security**.

ViroiDoc

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Job vacancies

ViroiDoc Call for DCs open from 12 March to 25 April 2025

The ViroiDoc Doctoral Network is looking for 10 highly motivated Doctoral Candidates (DCs) to join research laboratories in France, Germany, Greece, Italy, Slovenia and Spain. Successful candidates will have the opportunity to participate in the Marie Sklodowska-Curie Action (MSCA).

About the ViroiDoc Open Call

The Doctoral Network ViroiDoc offers exciting **projects on viroids**, the smallest plant pathogens, and **viroid-like RNAs** that have only recently been discovered outside the plant kingdom.

Positions are available to candidates who hold a university degree (MSc or equivalent) in plant biology, genetics, cell biology, biology, bioinformatics, biochemistry, chemistry, or a related discipline, completed no later than the start of the PhD project. The successful candidate should have a strong interest in conducting collaborative research in international and cross-sectoral contexts.

List of Individual Research Projects (IRP)

DC1 in Slovenia

IRP: *How Disrupting Viroid Biogenesis Impacts Viroid propagation* at the University of Ljubljana (UL) – Biotechnical faculty, Chair of Genetics, Biotechnology, Statistics and Plant Breeding.

IRP objective: The candidate will perform a meta-analysis of available RNA-seq data from different plant species infected with different viroids. The aim is to discover common and unique host proteins/processes that influence viroid infection in different plant species. Furthermore, the candidate will investigate how disruption of specific host proteins involved in viroid replication and movement in hops, or a model plant affects CBCVd infection by assessing viroid abundance, disease symptoms and plant immune response.

Supervisor: Nataša Štajner / Jernej Jakše (UL)

Secondment at **IBMCP, CSIC-UPV** (Spain) under co-supervision of **José-Antonio Daròs** (CSIC).

DC2 in Slovenia

IRP: *Climate change impact on viroid diseases* at the Slovenian Institute of Hop Research and Brewing (IHPS) in cooperation with the University of Ljubljana (Biotechnical faculty, Chair of Genetics, Biotechnology, Statistics and Plant Breeding).

IRP objective: To evaluate the phenotypic characteristics of hop plants in pre-symptomatic and symptomatic stages following artificial infection with CBCVd, under varying temperature conditions, and combined with water and nutrient stress. To quantify CBCVd levels in hop plants subjected to different environmental stress conditions. To analyze the phenolic profile and mineral content of both CBCVd-infected and healthy hop plants exposed to various environmental stress factors.

Supervisor: Sebastjan Radišek (IHPS)

Secondment at **UL** (Slovenia) under co-supervision of **Jernej Jakše** and **Maja Mikulič Petkovšek** (Biotechnical Faculty UL).

DC3 in Slovenia

IRP: *Development of a disposable, selective, and sensitive electrochemical sensor for on-site detection of plant viroids* at the National institute of chemistry (NIC) in cooperation with the University of Ljubljana (Faculty of Chemistry and Chemical Technology).

IRP objective: Develop a highly sensitive and selective miniaturized/portable electrochemical sensor for the detection of specific plant viroid(s), with emphasis on CBCVd at the early infection stage. Optimization and adaptation of the electrochemical sensor for its potential application in the field (artificial and/or real matrix calibration, further improvement of selectivity and sensitivity).

Supervisor: Samo Hočevar (NIC)

Secondment at **CAS - Institute of Biophysics** (Czech Republic) under co-supervision of **Miroslav Fojta** (CAS) and at **ICN2 - Nanobioelectronics & Biosensors** (Spain) under co-supervision of **Arben Merkoçi** (ICN2).

DC4 in France

IRP: *In vivo imaging of viroid RNA and associated host factors* at the Centre National de la Recherche Scientifique (CNRS), Institut de biologie moléculaire des plantes (IBMP), affiliated with the University of Strasbourg (École doctorale des Sciences de la Vie et de la Santé,) Strasbourg.

IRP objective: *In vivo* fluorescent tagging of viroid RNA and analysis of its intra- and intercellular trafficking in association with host factors. Isolation of in vivo ribonucleoprotein (RNP) complexes formed with viroid RNA, identification of associated proteins by LC-MS/MS and analysis of the functional significance of selected proteins during viroid trafficking and infection by reverse genetics and in vivo imaging.

Supervisor: Manfred Heinlein / **Todd Blevins** (CNRS)

Secondment at **IMBB - UoC** (Greece) under co-supervision of **Kriton Kalantidis** (UoC) and at **IBBM - University of La Plata** (Argentina) under co-supervision **Eduardo José Peña** (UNLP) and at **Abiopep** (Spain) under co-supervision of **Yolanda Hernando** (AP).

DC5 in Spain

IRP: *Point-of-care viroid diagnosis based on CRISPR-Cas technologies* at the Spanish National Research Council (CSIC) in cooperation with the Valencia Polytechnic University (UPV).

DC6 in Spain

IRP: *Development of novel antiviroidal strategies: towards drug discovery* at the Valencia Polytechnic University (UPV).

IRP objective: To develop and validate a system for assessing antiviroidal

Supervisors

ViroidDoc and its partner network brings together 14 leading research laboratories in EU, academic partners from Argentina and the USA, 5 non-academic partners from different sectors (plant breeding, plant pathogen diagnostics, plant protection and consulting) and University incubator offering entrepreneurial consulting and mentoring. This cross-sectoral and interdisciplinary framework provides a stimulating training environment for the DCs. The consortium includes both distinguished professors with decades of teaching experience and young scientists who are just beginning to establish themselves in the field.

Meet supervisors for doctoral degree

Aline Koch

University of Regensburg (UR), Germany

Professor of Plant RNA Transport and researcher at the **Department of Cell Biology and Plant Biochemistry**. Her research group focuses on developing sustainable

Beatriz Navarro Ramirez

The National Research Council (CNR), Italy

Senior researcher at the Institute for Sustainable Plant Protection (**IPSP**) of the CNR. Her research focuses on the study of the molecular interactions between

Francesco di Serio

The National Research Council (CNR), Italy

Senior researcher and the Director of the Institute for Sustainable Plant Protection (**IPSP**), investigating plant anti-viroid defence and viroid pathogenesis.

Jernej Jakše

University of Ljubljana (UL), Slovenia

Full professor of genetics at the University of Ljubljana, **Biotechnical Faculty**, Agronomy Department. His work spans both basic and applied research in

ViroiDoc Open Call evaluation in progress

ViroiDoc is currently in the final stage of evaluating all applications. When positions in Italy become available you will be invited to apply.

After the eligibility check in Stage 1, eligible candidates will proceed to be reviewed by the selection committee specific to the project. Applicants scoring more than 75% will be included in the initial ranking list and invited to an (online) interview (Stage 2).

The ViroiDoc project team expects to evaluate the candidates by mid-June.

Applicants contacting ViroiDoc are kindly asked to be patient. This is in answering questions about evaluations.

We look forward to the next phase of this journey and will keep you updated as we move forward.

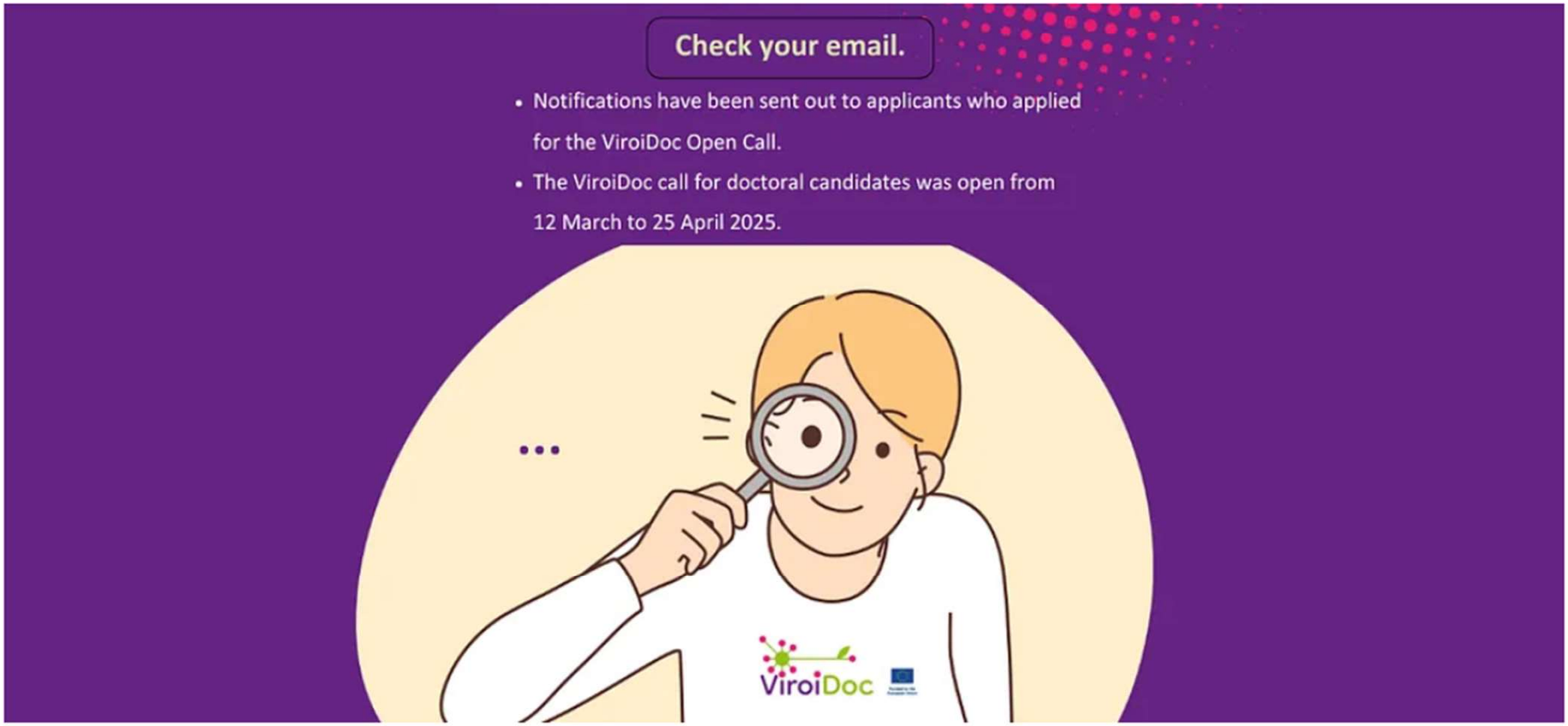
Positions for Italy not yet open

Due to a change in labour legislation, vacancies in Italy are not yet available. We will notify you when positions in Italy become available and invite you to apply.

- DC7 in Italy: IRP *Dissection of viroid pathogenesis through omics and phenotyping approaches*
- DC8 in Italy: IRP *Identification and characterization of novel infectious circular viroid-like RNAs in hosts belonging to different kingdoms*

For more details see **ViroiDoc Open Call Guidelines for Applicants**.

For further information, please contact info@viroidoc.eu.



06/06/2025 by ViroiDoc project team

0 Comments

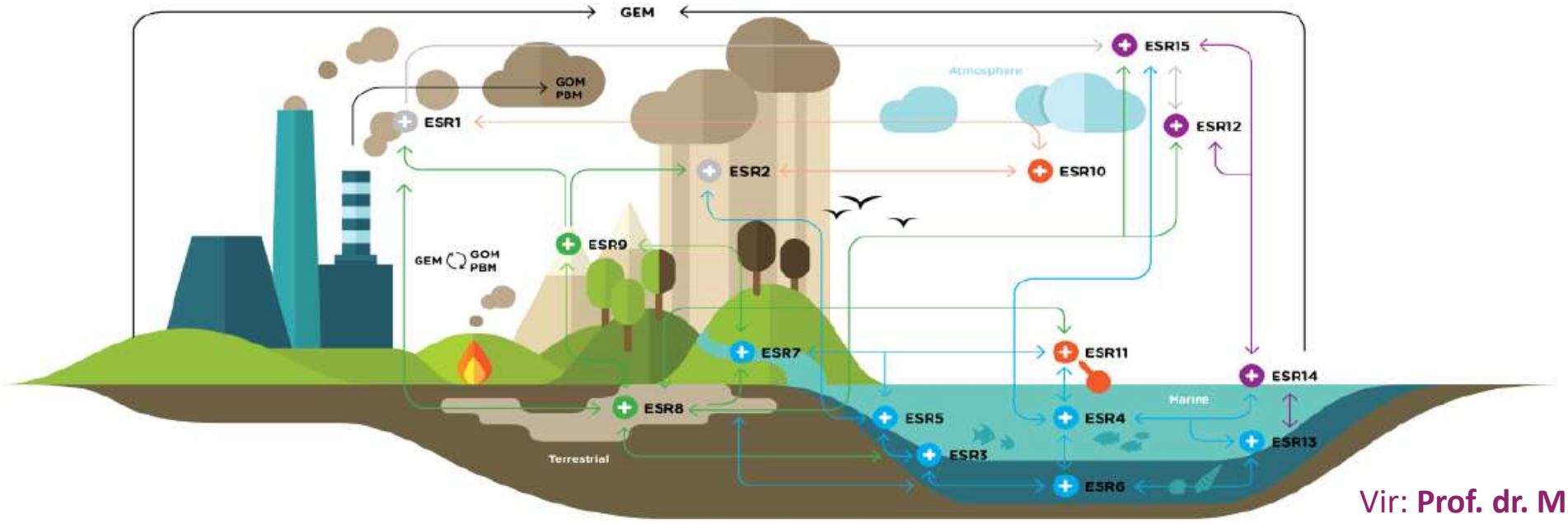
15 Early Stage Researchers

Global biogeochemical Hg Cycle

www.gmos-train.eu

The overall objectives are:

1) to provide urgently needed training in Hg science within the context of the UNEP Minamata Convention
2) to fill key knowledge gaps in biogeochemical Hg cycling linking anthropogenic emissions and Hg in marine food webs



Legend 1

- WP1 (ESRs 1-2) Atmospheric processes
- WP2 (ESRs 3-7) Marine processes
- WP3 (ESRs 8-9)Terrestrial-land-water systems
- WP4 (ESRs 10-11) Traceability & sensors
- WP5 (ESRs 12-13) & WP6 (ESRs 14-15) Modeling

Legend 2

ESR1	Oxidants and RM	ESR6	Lower food web	ESR11	Sensors
ESR2	Kinetics/deposition/re-emission	ESR7	Land water interactions	ESR12	Regional models
ESR3	C/H/Hg compound specific analyses	ESR8	Permafrost	ESR13	Ecosystem model
ESR4	Ocean speciation/cruises	ESR9	Terrestial/canopy	ESR14	Ocean/atmosphere exchanges
ESR5	Coastal dynamics Methylation/demethylation	ESR10	Traceability/comparability	ESR15	Global models

Vir: **Prof. dr. Milena Horvat, IJS,** MIZŠ Info day, 3.5.21

Eligibility of doctoral candidates

MSCA-NET

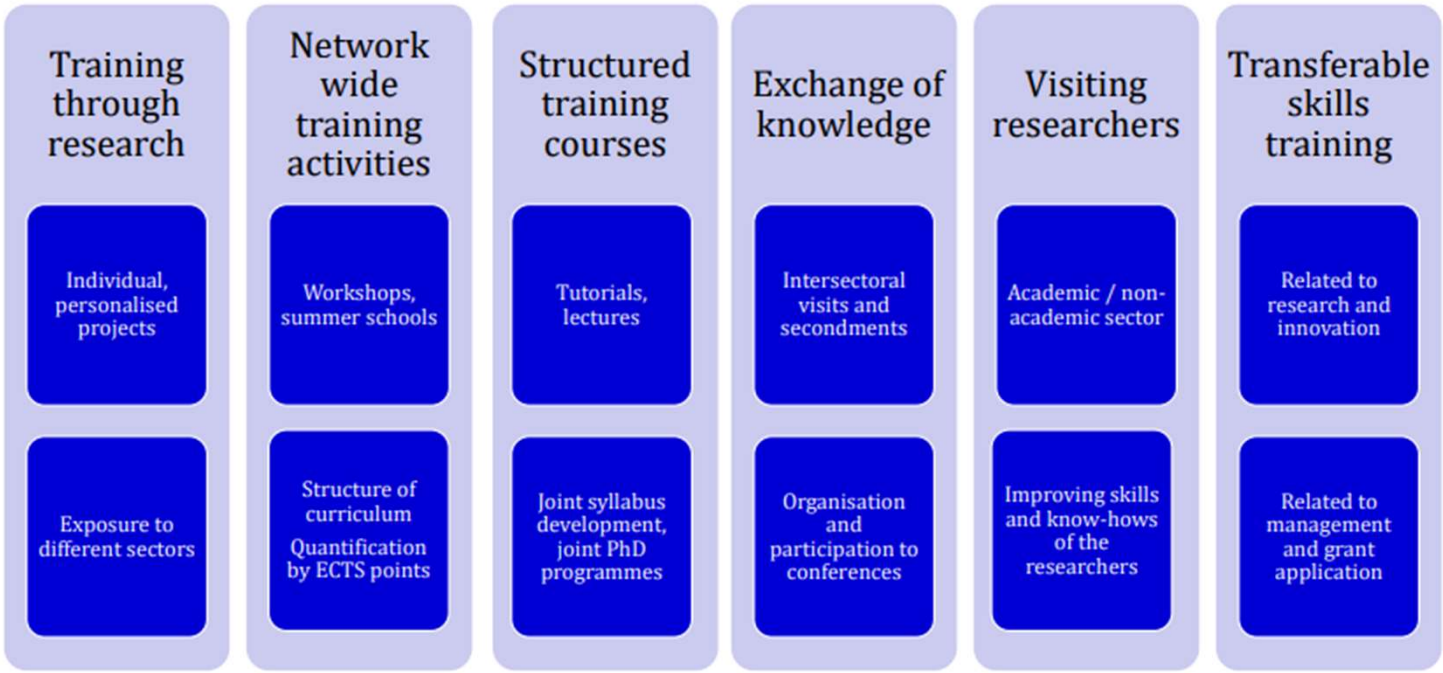
Supported researchers of **any nationality** must be **doctoral candidates** (not already in possession of a doctoral degree at the date of recruitment).

Mobility rule: must not have resided or carried out main activity in the country of the recruiting beneficiary for more than **12 monthsin the 36 months** immediately before their recruitment date.

Researchers **must be enrolled in a doctoral programme**, in at least 1 EU Member State/Associated Country (at least 2 for Joint Doctorates).

Tipical activities of Doctoral Networks

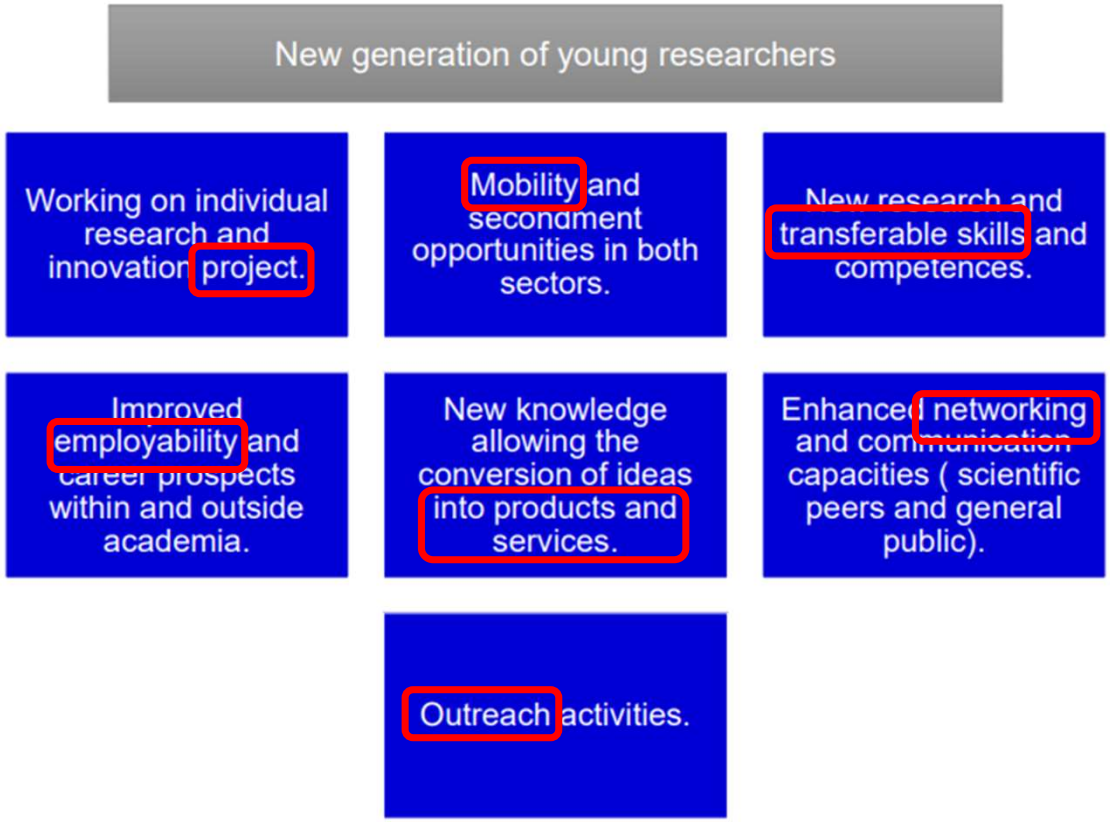
MSCA-NET



Based on the Innovative Doctoral Training principles

Expected Outcome of Doctoral Networks for doctoral candidates

MSCA-NET



Expected Outcome of Doctoral Networks for organisations

MSCA-NET

Talent	• Recruitment of EU funded excellent DCs
Network	• Cooperation and knowledge transfer between sectors/disciplilne
Capacity	• Strengthening Researc and innovation capacity
Enhanced training programme	• Improved quality, relevance and sustainability of PhD programmes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A comprehensive CAD system based on radiologic- and pathologic-image biomarkers for diagnosis and prognosis of breast cancer relapse
HORIZON EUROPE
A comprehensive CAD system based on radiologic- and pathologic-image biomarkers for diagnosis and prognosis of breast cancer relapse
Fact Sheet
Reporting
Results
Project description
DE EN ES FR IT PL
Computer-aided design system for breast cancer classification and prognosis of relapse
Breast cancer (BC) incidence leads to more than 600 000 deaths annually. Distant metastasis due to illness relapse is incurable, underscoring the inadequacy of our understanding of its mechanisms. Thus, oncologists use screening programmes based on radiological and histopathological imaging to analyse tumours, study their immune microenvironment and predict the probability of distant metastasis and relapse. Funded by the Marie Skłodowska-Curie Actions programme, the BosomShield project proposes to join the two disciplines (pathological and radiological imaging) in a software that will analyse these images to classify cancer subtypes and predict distant metastasis and relapse. BosomShield will also provide high-level training to young researchers, advancing their skills and career prospects in BC research.
Show the project objective
Fields of science (EuroSciVoc)
medical and health sciences > clinical medicine > radiology
medical and health sciences > clinical medicine > oncology > breast cancer
medical and health sciences > basic medicine > pathology
Project Information
BosomShield
Grant agreement ID: 101073222
Project website
DOI
10.3030/101073222
EC signature date
6 July 2022
Start date
1 September 2022
End date
31 August 2026
Funded under
Marie Skłodowska-Curie Actions (MSCA)
Total cost
No data
EU contribution
€ 2 595 355,20
Investment in EU policy priorities
Digital agenda
Clean air
Artificial Intelligence
Climate action
Biodiversity


Norway
Swede
Estonia
Latvia
Denmark
Lithuania
United Kingdom
Belarus
Ireland
Germany
Belgium
Czechia
Ukraine
Slovakia
Hungary
Moldova
France
Switzerland
Romania
Croatia
Bosnia and Herzegovina
Serbia
Monaco
Montenegro
Bulgaria
Italy
Georgia
Kosovo*
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Greece
Malta
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Tunisia
Morocco
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Participants (9)

Sort alphabetically | Sort by Net EU contribution | Expand all

KUNGLIGA TEKNISKA HOEGSKOLAN Sweden	Net EU contribution € 293 709,60	
STICHTING RADBOUD UNIVERSITAIR MEDISCH CENTRUM Netherlands	Net EU contribution € 274 370,40	
FUNDACIO INSTITUT D'INVESTIGACIO SANITARIA PERE VIRGILI (IISPV) Spain	Net EU contribution € 251 971,20	
INSTYTUT BIOCYBERNETYKI I INZYNIERII BIOMEDYCZNEJ IM.MACIEJA NALECZA POLSKIEJ AKADEMII NAUK Poland	Net EU contribution € 226 512,00	
UNIVERSITA DEGLI STUDI DI UDINE Italy	Net EU contribution € 259 437,60	
UNIVERSITE MARIE ET LOUIS PASTEUR France	Net EU contribution € 282 693,60	
UNIVERZA V MARIBORU Slovenia	Net EU contribution € 242 179,20	
N VISION SYSTEMS AND TECHNOLOGIES SL Spain	Net EU contribution € 251 971,20	
MEDIRI GMBH Germany	Net EU contribution € 260 539,20	

Partners (15)

Sort alphabetically | Sort by Net EU contribution | Expand all

INSTITUTE OF TECHNOLOGY PETRONAS SDN BHD Malaysia	Net EU contribution € 0,00	
The University of Texas Health Science Center at Houston United States	Net EU contribution € 0,00	
UMMON HEALTHTECH France	Net EU contribution € 0,00	
O3 ENTERPRISE SRL Italy	Net EU contribution € 0,00	
SFERA IT STORITVE DOO Slovenia	Net EU contribution € 0,00	
General Electric Company dba GE Research United States	Net EU contribution € 0,00	
HOCHSCHULE DARMSTADT (UNIVERSITY OF APPLIED SCIENCES H-DA) Germany	Net EU contribution € 0,00	
HOSPITAL UNIVERSITARI SANT JOAN DE REUS, SAM Spain	Net EU contribution € 0,00	
LUNDS UNIVERSITET Sweden	Net EU contribution € 0,00	
Univerzitetni klinicni center Maribor Slovenia	Net EU contribution € 0,00	
SERVICIO ANDALUZ DE LA SALUD Spain	Net EU contribution € 0,00	
AZIENDA SANITARIA UNIVERSITARIA FRIULI CENTRALE Italy	Net EU contribution € 0,00	
UNIVERSITE DIJON BOURGOGNE France	Net EU contribution € 0,00	

MSCA DN Summary

Consortium

- Up to 540 person-months for all DN modalities
- At least **three** independent legal entities, each established in a different MS or AC; minimum **1 beneficiary from a MS** (no minimum for associated partners).
- **Each beneficiary must recruit at least 1 DC**
- **Max 40% funding per country**
- **Associated partners** contribute to the implementation of the action (i.e. training of researchers, secondments) but may not employ researchers under the action. They do not sign the grant agreement.

Recruitment

- **Open, fair, transparent, merit-based recruitment.**
- Eligible researchers must:
  - Comply with the MSCA **mobility rule***
  - **Be Doctoral candidates** (not already in possession of a doctoral degree at the date of recruitment)
  - They can be of **any nationality**.

* DCs must not have resided or carried out their main activity in the country of the recruiting beneficiary for more than 12 months in the 36 months immediately before their recruitment date.

European Commission

REPUBLIKA SLOVENIJA
MINISTRSTVO ZA VISOKO ŠOLSTVO, ZNANOST IN INOVACIJE

Hvala lepa za vašo pozornost!

stojan.sorcan@gov.si

Najnovejše informacije za javnost, NCP MSCA v Obzorju Evropa

MREŽA NACIONALNIH KONTAKTNIH TOČK
Obzorje Evropa

2024 – 2025 ZNANOST! EVROPSKA NOČ RAZISKOVALCEV