14/07/2022

Marie Skłodowska-Curie Actions

12 Doctoral Candidate positions - MSCA - "Cellular Homeostasis ANd AGing in Connective TissuE Disorders" (CHANGE)

UNIVERSITÀ DI PAVIA

Where to apply

Application Deadline: 30/09/2022 17:00 - Europe/Brussels

Contact Details

Where to send your application.

COMPANY
Università degli Studi di Pavia

E-MAIL
change_project.msca@unipv.it

Hiring/Funding Organisation/Institute

ORGANISATION/COMPANY
Università degli Studi di Pavia

COUNTRY
Italy

DEPARTMENT
Department of Molecular Medicine

CITY
Pavia

ORGANISATION TYPE
Public Research Institution

STATE/PROVINCE
PV

WEBSITE
http://www.unipv.eu
http://medmol.unipv.eu/site/home.html

POSTAL CODE
27100

STREET
Corso Strada Nuova 65

E-MAIL

antonella.forlino@unipv.it

PHONE
+390382987235

ORGANISATION/COMPANY
Università degli Studi di Pavia

RESEARCH FIELD
Biological sciences › Biology
Biological sciences › Laboratory animal science

RESEARCHER PROFILE
First Stage Researcher (R1)

APPLICATION DEADLINE
30/09/2022 17:00 - Europe/Brussels

LOCATION
Multiple locations, see work locations below.

TYPE OF CONTRACT
Temporary

JOB STATUS
Full-time

HOURS PER WEEK
40

OFFER STARTING DATE
01/11/2022

EU RESEARCH FRAMEWORK PROGRAMME
HE / MSCA

REFERENCE NUMBER
101072766

MARIE CURIE GRANT AGREEMENT NUMBER
4903050

OFFER DESCRIPTION

CHANGE is a Marie Sklodowska-Curie Doctoral Network (MSCA-DN) focused on investigating connective tissue (CT) disorders to identify key players in age-related decline in physiological functions to develop therapeutic strategies and identify treatment targets for common diseases and frailty associated with aging. It is part of Horizon EUROPE programme of the European Union and 12 Doctoral Candidates (DC) will be appointed for 36 months each.

CHANGE project - summary

Lifespan has significantly increased but age-related disorders severely limit healthy aging and quality of life, and are a serious burden for the society. Musculoskeletal, cardio- and cerebrovascular failure are hallmarks of physical and cognitive decline in the elderly, but

importantly, are also common traits in several early onset hereditary connective tissue disorders.

In CHANGE, 12 young scientists will combine skills in musculoskeletal and vascular developmental and cellular biology and pathobiology related to aging, with expertise in cell culture, animal models, -omics, innovative high-resolution imaging and functional techniques. Exchange of knowledge and multidisciplinary collaboration between these fields of research and partners within the consortium will provide the skills, multidisciplinary knowledge and on-the-job training experience necessary to tackle the main aspects of biology of aging and age-related disorders affecting bone, cartilage, muscle and vasculature.

PhD positions

The consortium consists of partners from academia and industry with excellent scientific qualifications in multiple disciplines. In total, there are 12 open PhD positions for DCs within CHANGE. Each DC will be appointed at one of the consortium partners but secondments and regular meetings will be performed at other partners to ensure multidisciplinary training and close collaboration. An ideal DC candidate will hold a Master's degree with excellent marks from her/his previous studies and experience in one or more of the relevant broad research fields will be an advantage. Excellent written and oral communication skills in English are essential. The DCs will start their projects between September 2022 and March 2023.

University of Pavia, Pavia, Italy

D*C1 (Supervisor Prof. Antonella Forlino) will deeply phenotype a murine model of osteogenesis imperfecta to investigate the aging effect of misfolded collagen type I on multi-organ failure.*

DC2 (Supervisor Prof. Antonio Rossi) will use a murine model of diastrophic dysplasia (DTD) to define the macromolecular sulfation role in aging of the musculoskeletal system

University of Padova, Padova, Italy

DC3 (Supervisor Prof. Paolo Bonaldo) will focus on genetic muscular diseases linked to collagen VI deficiency to investigate the transduction mechanisms of collagen VI in disease & premature ageing

Goethe University, Frankfurt, Germany

DC4 (Supervisor Prof. Frank Zaucke) will dissect the contribution of different tissues to osteoarthritis (OA) in age-dependent and post-traumatic OA.

DC5 (Supervisor Dr Zsuzsa Jenei-Lanzl) will investigate the role of the aging autonomic nervous system in intervertebral disc and facet joint degeneration and subsequent genesis of low back pain

IMAGINE Institute, Paris, France

DC6 (Supervisor Prof. Laurence Legeai-Mallet) will investigate relevant cellular and mouse models of hypochondroplasia (HCH) which is a rare form of FGFR3-related dwarfism in humans

École Normale Supérieure de Lyon, Lyon, France

DC7 (Superviosr. Dr. Florence Ruggiero) will use zebrafish, an emerging model for the study of human diseases, to investigate the progressive pathophysiological mechanisms of collagen VI-related myopathies in aging

EVERCYTE, Vienna, Austria

DC8 (Supervisors Dr. Regina Grillari and Prof. Johannes Grillari) will use extracellular vesicles derived from mesenchymal stem cells obtained from different sources as senomorphic and/or enhancers of primary cilia function in connective tissue diseases

LifeTec Group, Eindhoven, The Netherlands

DC9 (Supervisor Dr. Linda Kock) will develop ex vivo disease models to study osteochondral disease progression and repair

MEDETIA, Paris, France

DC10 (supervisors Dr. Jean-Philippe Annereau and Dr. Luis Briseno-Roa) will study the role of primary cilia in mechanisms of aging

University of Newcastle, UK

DC11 (Supervisors Dr. Katarzyna Pirog and Prof. Michael Briggs) will focus on the investigation of the role of KIF22 in development of musculoskeletal tissues. KIF22 is not only the disease gene causing Spondyloepimetaphyseal Dysplasia with Joint Laxity type II but also potentially involved in the formation of primary cilia and in cilia-associated transport mechanisms

University of Glasgow, UK

DC12 (Supervisors Prof. Tom Van Agtmael and Prof. Colin Selman) will focus on the investigation of the interaction between aging and collagen IV in age-dependent vascular disease

More Information

ADDITIONAL INFORMATION

Benefits

MSCA-DN offers an attractive salary and working conditions. A unique feature of MSCA-DN is that during the PhD research, DC PhD students will be given the opportunity to perform secondments at the facilities of other consortium members. DCs will benefit from a dedicated training program in the various fields of expertise organized and provided by the consortium partners. Salary is complemented with a mobility allowance.
For more information on MSCA-DN, visit
http://ec.europa.eu/research/mariecurieactions/index_en.htm

Eligibility criteria

There are strict eligibility requirements for the DC positions in a MSCA-DN. Please ensure that you qualify before applying, as ineligible candidates cannot be considered.

Applicants should not have resided or performed their main activity (work, studies, etc) in the country of the host institution for more than 12 months in the 3 year period immediately prior to the start date of the PhD research.

Applicants for the DC positions should be in their early research careers and not yet have been awarded a doctorate.

Selection process

To apply for this position, send your CV, motivation letter and at least a reference letter to the following email address - **change_project.msca@unipv.it**
Please state the DC reference (CHANGE DC number in the Offer Description) in the subject line. If you would like to apply for more than one position, please indicate your first and second preference.
Short listed Applicants will be interview by the Trainee Committee.

The individual DC projects are set to start between 01.11.2022 and 31.03.2023.

REQUIREMENTS

Required Research Experiences

RESEARCH FIELD
Biological sciences › Biology

YEARS OF RESEARCH EXPERIENCE
1 - 4

RESEARCH FIELD

Biological sciences › Laboratory animal science

YEARS OF RESEARCH EXPERIENCE
1 - 4

Offer Requirements

REQUIRED LANGUAGES
ENGLISH: Excellent

Skills/Qualifications

An ideal DC candidate will hold a Master's degree with excellent marks from her/his previous studies and experience in one or more of the relevant broad research fields will be an advantage. Excellent written and oral communication skills in English are essential.
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Specific Requirements

MSc, MRes, MEng, or equivalent in Life Science (Biology, Biochemistry, Biophysics, etc), Bioengineering, Physics or a related discipline.

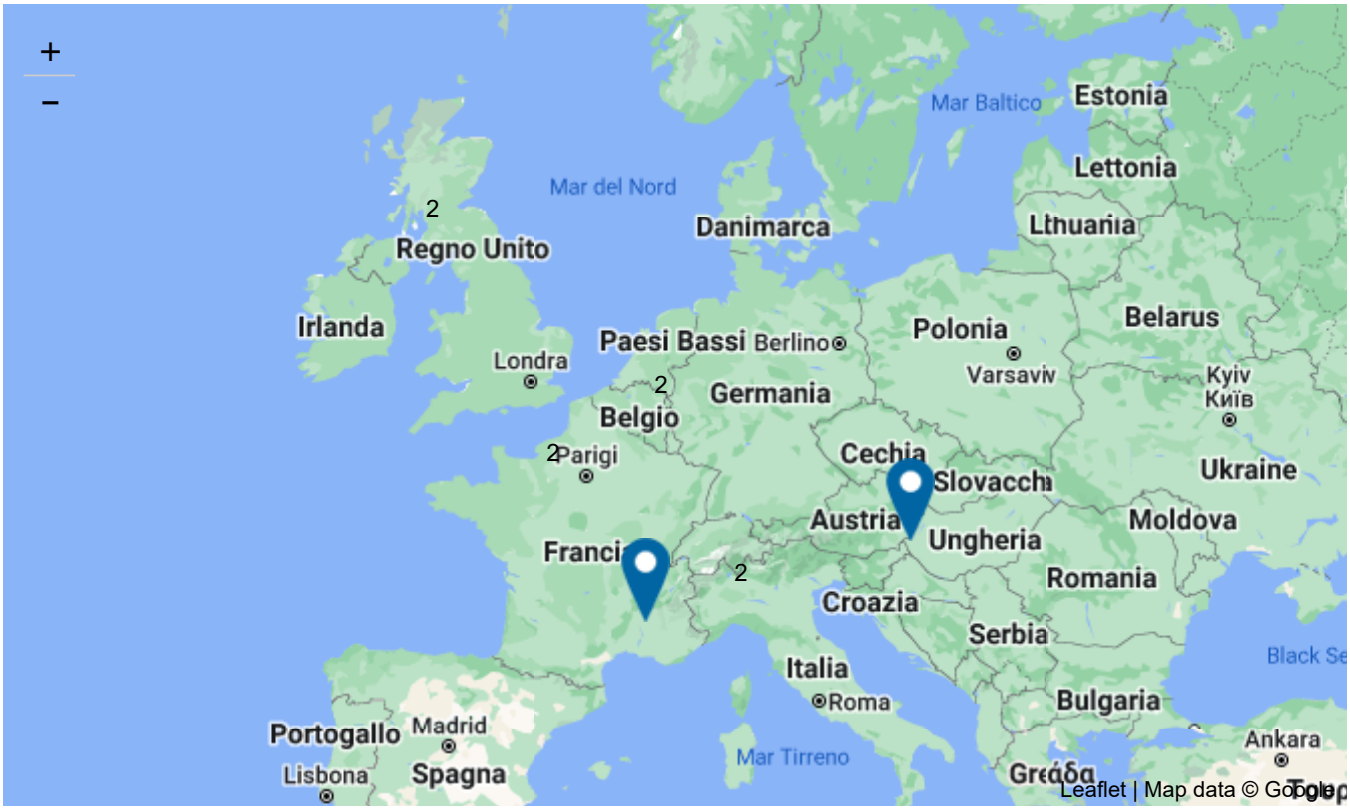
Wet-lab experience in life science, Bioengineering, Physics or a related field

Interested and motivated to work in the field of age-related decline in physiological functions and of development of therapeutic strategies and identification of treatment targets for common diseases and frailty associated with aging.

Appreciation for interdisciplinary work and proactive drive to collaborate across disciplines

Applicants whose first language in not English may need to meet the English language requirements of the institute.

Map Information



Job Work Location

WORK LOCATION(S)

2 position(s) available at
Università degli Studi di Pavia
Italy
PV
Pavia
27100
Corso Strada Nuova 65

1 position(s) available at
Università degli Studi di Padova
Italy
PD
Padova
35122
Via 8 Febbraio, 2

2 position(s) available at
Johann Wolfgang Goethe-Universitaet Frankfurt am Main
Germany
Frankfurt am Main
60629
Theodor W. Adorno Platz, 1

1 position(s) available at
IMAGINE - Institut des Maladies Génétiques Necker Enfants Malades
France
Paris
75015
24 Bd du Montparnasse

1 position(s) available at
École Normale Supérieure de Lyon
France
Lyon
69342
15 Parvis René Descartes

1 position(s) available at
Evercyte GMBH
Austria
Wien
1110
Leberstrasse 20/8

1 position(s) available at
Lifetec Group BV
Netherlands
Eindhoven
5611 ZS
Kennedyplein 11

1 position(s) available at
MEDETIA SAS
France
Paris
75015
24 Bd du Montparnasse

1 position(s) available at
University of Newcastle Upon Tyne
United Kingdom
Newcastle Upon Tyne
NEI 7RU
Kings Gate

1 position(s) available at
University of Glasgow
United Kingdom
Glasgow
G12 8QQ
University Avenue

EURAXESS offer ID: 812870