

Doctoral Networks (DN)
Call: HORIZON-MSCA-2022-DN-01



INSIDE-HEART: multi-disciplinary, multi-Sectoral and multi-national training network on Digital biomarkers for supraventricular arrhythmia characterization and Risk assessment

Project №: 101119941

Start date of the project: 01/11/2023 Duration: 48 months

Project Coordinator: Valentina Corino

Call for application



This project has received funding from the European Union's Horizon Europe programme under the Marie Skłodowska-Curie grant agreement № 101119941.



INSIDE-HEART is a Doctoral Network programme for highly motivated young scientists with no or minimal experience, where state-of-the-art research is combined with a comprehensive training programme. The network is funded by the European Community through the Horizon Europe Actions. The European Commission wants to make research careers more attractive to young people and therefore offers early-stage researchers the opportunity to improve their research skills, join established research teams, and enhance their career prospects via the so-called Marie Curie Doctoral Networks.

INSIDE-HEART brings together **universities, companies** and **hospitals** from Italy, Finland, France, Israel, Netherlands, Spain, and Sweden to establish a multi-disciplinary network to tackle the **design** and early-phase **validation** of **digital biomarkers** targeting the diagnosis of **supraventricular arrhythmias** (SVAs) and their associated potential for adverse risk assessment.

The composite nature of the INSIDE-HEART network ensures a **highly qualified training** and **research infrastructure** for the specific goal, which aims to generate a new researcher profile with multi-sectoral expertise able to fill the existing gap, i.e., the absence of **digital biomarkers** for SVAs reliably estimated with **non-clinical devices** via the combination of **signal processing** and **artificial intelligence**, taking into account basic research, clinical needs and business interests.

The INSIDE-HEART project, coordinated by the Politecnico di Milano, has started on November 1st, 2023 and will be carried out over a period of 4 years. The network consists of 6 academic institutions, 3 industrial partners and 1 hospital. The INSIDE-HEART consortium is now looking for highly motivated candidates for 10 PhD positions (i.e., doctoral candidates, DCs). Project description, starting date and other details of each fellowship are contained in the relevant attachment. The call for applications is open from December 2023 until 31 January 2024.

Please read carefully the employment conditions.

Employment conditions

- ✓ The contract will last 36 months.
- ✓ The gross salary for all DCs positions is composed by a living allowance that depends on the country where the DC will be hired (see the Individual Research projects), a mobility allowance (7,200€/year) and a family allowance (7,920€/year where applicable).
- ✓ The DC will pay taxes according to the country rules where he/she will be hired (the tax percentage depends on the country too).
- ✓ The DC must be employed full-time, unless the Research Executive Agency has approved a part-time employment for personal or family reasons.
- ✓ The DC must be working exclusively for the action.
- ✓ Each DC will have to complete at least two secondments (temporary transfer to another INSIDE-HEART academic, industrial or clinical partner) for a total period of minimum 6 months during the term of his/her employment.



- ✓ Each DC must actively participate in the events organized by INSIDE-HEART network, such as training/network events as well as in regular yearly Outreach Activities targeting different audiences.
- ✓ Recruitment, selection and appointment of the DC follow the European Charter & Code of Conduct. All INSIDE-HEART partners commit themselves to provide equal opportunities for male, female and disabled DCs.

Further conditions set by hosting countries and institutions may apply.

Requirements

Eligible DC candidates may be of any nationality but must not, at the time of recruitment have resided or carried out their main activity (work, studies, etc.) in the country of their host organization for more than 12 months in the last 3 years immediately prior to the reference date.

DC must be, at the time of recruitment by the host organization, in the first four years (full-time equivalent) of their research careers and must not have yet been awarded a doctoral degree. This is measured from the date when the Master's degree that would formally entitle them to embark on a doctorate was awarded. Proficiency in the English language (including both written and oral fluency) is essential.

The Candidates must hold a M.Sc. Degree by the starting date of the fellowship, in one of the following areas: Engineering, Physics, Applied Mathematics or Computer Science.

Further specific requirements and restrictions set by hosting countries and institutions are listed in each fellowship description.

How to apply?

Candidates may apply for more than one fellowship (maximum 10), but only with a single application, in which the candidate has to provide the list of fellowships for which he/she is applying in order of preference.

List of Documents to be provided

- a) Application Form (see attachment)
- b) Letter of motivation (max. 1 page)
- c) Copies of degree and academic transcripts (with grades and rankings)
- d) Short CV using the attached template
- e) Two reference letters from academics or professionals¹. Candidates must indicate the academics detail when applying.
- f) Proof of English language skills (if required by the host institution)
- g) Passport copy

¹ The letters must be compiled using only the given template. The academics or professionals need to send the letters directly to the Coordination Office from their official e-mail address, no later than 31/01/2024. It is the Applicant's responsibility to contact the academics or professionals and provide them with the Recommendation Template.



All the above-mentioned documents must be collected in a single pdf file. The pdf file has to be sent to the INSIDE-HEART Coordination Office at the following email address: insideheart@polimi.it. This being a compulsory procedure, any other means/format for submitting the application will not be accepted.

Recruitment strategy

A common scoring system and interviews will be used, respecting privacy and protection of the Applicant's data. Female candidates and candidates with disabilities are strongly encouraged to apply.

The selection process is based on two steps:

1. Evaluation of the documents provided by the Applicant (Assessment of academic records)
2. After January 31st 2024, for shortlisted candidates, remote interviews will be organized via teleconference. Practical assignments can be requested at discretion of the hiring institution.

For further information on the application procedure, please contact insideheart@polimi.it