



15 ESR (PhD student) positions for the European Training Network in Safety Pharmacology - INSPIRE

INSPIRE (www.inspire-safety-pharmacology.eu) is looking for 15 Early Stage Researcher (ESR) - PhD students with the knowledge and enthusiasm to help the project make meaningful research breakthroughs. Selected candidates will enrol on PhD programmes and be employed for 36 months. Application deadline: **before February 15, 2020** (12 pm - CET).

About INSPIRE

The vision of INSPIRE is to advance and “inspire” Safety Pharmacology by exploring new technological capabilities to addressing emerging cardiovascular safety concerns. Hereto, INSPIRE unites expertise from academic teams, technology-providers, pharmaceutical companies, regulators and hospitals to create a European training platform for 15 Early Stage Researchers (ESRs). Key innovative aspects of INSPIRE include: i) *in vitro* humanized cardiomyocytes assays, ii) unparalleled *in vivo* hardware/software solutions, iii) *in silico* predictions of haemodynamics, iv) mass spectroscopy imaging of drug exposure, v) exploration of mechanisms of late-onset CV toxicity, as observed in cardio-oncology, and vi) early integration of feedback from industry and regulators.

Overall, INSPIRE constitutes a multidisciplinary and intersectoral training programme with a balanced combination of hands-on research training, intersectoral secondments, local courses and network-wide events on scientific and transferable skills, enabling future R&I collaborations. Hence, INSPIRE will equip the future generation of SP scientists with a wide range of scientific knowledge and the ability to adapt to a dynamic industry.

Offered positions

- **ESR1:** Development and validation of improved hiPSC CM assays to study cardiac safety (more details [here](#))
- **ESR2:** Development and validation of cardiomyocyte model as a predictive assay to assess functional and structural cardiac liabilities (more details [here](#))
- **ESR3:** Empowering predictivity and speed of hiPSC CM assays by machine learning approach (more details [here](#))
- **ESR4:** Development of novel telemetry implants with added 3D micro-GPS functionality (more details [here](#))
- **ESR5:** Extending NOTOCORD-Sense™ with behavioural analysers to enable neuro-cardiovascular assessment in a cloud-based architecture (more details [here](#))
- **ESR6:** Development of new algorithms and software to analyse and quantify social interactions and behaviour (more details [here](#))
- **ESR7:** Validation and use of novel telemetry implants with 3D micro-GPS functionality for integrated neuro-cardiovascular assessment (more details [here](#))
- **ESR8:** An *in silico* approach to monitor and predict haemodynamics during safety pharmacology studies (more details [here](#))
- **ESR9:** Development of mass spectrometry imaging tools to study drug distribution and associated tissue-specific effects (more details [here](#))
- **ESR10:** Measuring arterial stiffness at different scales: a new toolbox for safety pharmacology (more details [here](#))
- **ESR11:** New pre-clinical screens in safety pharmacology (more details [here](#))
- **ESR12:** Assessing the cardiovascular safety liabilities of growth factor inhibition (more details [here](#))
- **ESR13:** Development of novel strategies to mitigate cardio-toxicity and heart failure (more details [here](#))
- **ESR14:** Chemotherapy-induced functional myocardial alterations: is a HFpEF stage preceding HFrEF? (more details [here](#))
- **ESR15:** Personalized SP against drug-evoked proarrhythmia (more details [here](#))



Tasks and responsibilities

- Selected candidates will perform independently scientific research within a collaborative international research consortium (training network).
- Selected candidates will deliver written reports of your research on a regular basis
- Selected candidates will prepare a doctoral thesis on the topics proposed by INSPIRE (more details [here](#)).
- Selected candidates will publish scientific articles related to the research project of the assignment.
- Selected candidates will (may) support the valorization of research results into tangible deliverables.
- Selected candidates will participate to scientific meetings and conferences to present their research to the scientific community.
- Selected candidates will actively participate in outreach activities aimed to promote your scientific research to a wider audience.
- Selected candidates will get in contact with the other members of this international consortium and will benefit from the tailored training programme.
- Selected candidates will take part in the academic and industrial secondments

Profile & requirements

- Applicants must hold a MSc or equivalent in the field of Medicine, Pharmaceutical Sciences, Mathematics, Computer Science, Physics, Engineering, Exact Sciences, Chemistry, Biochemistry, and other Life Sciences.
- Applicants can be of any nationality, but have to comply with the “Mobility Rule (cf. infra)”.
- Applicants must have an ability to understand and express themselves in both written and spoken English to a level that is sufficiently high for them to derive the full benefit from the network training.
- Applicants must be eligible to enrol on a PhD programme at the host institution (or at a designated university, in case the host institution is a non-academic organisation).
- ✓ Applicants must have the necessary academic skills and background to make the success of a doctoral degree.
- ✓ **H2020 MSCA Mobility Rule:** researchers must not have resided or carried out their main activity (work, studies, etc.) in the country of the host organisation for more than 12 months in the 3 years immediately before the recruitment date. Compulsory national service, short stays such as holidays, and time spent as part of a procedure for obtaining refugee status are not taken into account.
- ✓ **H2020 MSCA eligibility criteria:** Early Stage Researchers (ESRs) must be, at the date of recruitment by the host organisation, in the first four years (full-time equivalent research experience) of their research careers and have not been awarded a doctoral degree. Full-Time Equivalent Research Experience is measured from the date when the researcher obtained the degree entitling him/her to embark on a doctorate (either in the country in which the degree was obtained or in the country in which the researcher is recruited, even if a doctorate was never started or envisaged).

Benefits

- ✓ Full-time employment contract by the host organisation for 36 months.
- ✓ A competitive salary plus allowances. Moreover, funding is available for technical and personal skills training and participation in international research events.
- ✓ Benefit from the designed training programme offered by the host organisation and the INSPIRE consortium.
- ✓ Participation in international secondments to other organisations within the INSPIRE network and in outreach activities targeted at a wide audience.

For additional information, please refer to the [Information note for Marie Skłodowska-Curie ITN fellows](#)

Application

Interested candidates are invited to apply by filing in the application form via this link: <https://www.uantwerpen.be/en/projects/inspire-safety-pharmacology/job-openings/submit-your-application/>.

For additional information

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