Role profile

<table>
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<tr>
<th>Job title</th>
<th>Job family and level</th>
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<tbody>
<tr>
<td>Marie Skłodowska Curie Actions: Early Stage Researcher (MSCA ESR)</td>
<td>Research &amp; Teaching Off Scale</td>
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| School/Department | School of Life Sciences, Faculty of Medicine & Life Sciences | Location | University of Nottingham Medical School, Queen's Medical Centre |

Purpose of role

The purpose of this role will be to develop the research objectives within the INSPIRE MSCA ITN (Innovative Training Network). The role will involve developing preclinical screens in safety pharmacology for detection of cardiovascular (CV) effects, using ‘failed’ clinical candidates. It will utilise novel Doppler flowmetry models and telemetry to establish whether safety liabilities could have been predicted using more in-depth CV preclinical evaluations. It will apply this information to investigate whether novel markers can be derived from the arterial pressure waveform that correlate to drug-induced effects at the vascular level. The researcher will be expected to present results at internal and external scientific meetings and participate in the wider INSPIRE multinational consortium.

The successful applicant will be registered at UNOTT for a funded PhD based on their INSPIRE ESR project.

Main responsibilities

(Primary accountabilities and responsibilities expected to fulfil the role)

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<th>% time per year</th>
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1 To plan and conduct research to address the following aims
   ▪ Develop preclinical screens in safety pharmacology for the detection of CV side-effects.
   ▪ To utilize novel Doppler flowmetry models and telemetry to establish whether safety liabilities can be predicted.
   ▪ To apply this information to investigate whether novel markers can be derived from the arterial pressure waveform that correlate to drug-induced effects at the vascular level.

2 To establish and consolidate collaborations with other INSPIRE ESRs 10%

3 To execute at least two external short-term secondments at industrial institutions. Secondments are currently planned to take place at Vivionics and AstraZeneca 15%

4 To present results in several environments including
   ▪ Project meetings and group meetings
   ▪ Peer-reviewed journals 10%
| National and international conferences |  |
Person specification

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<th>Essential</th>
<th>Desirable</th>
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| **Skills**                     | ▪ Excellent oral and written communication skills, including the ability to communicate with clarity complex information.  
▪ Ability to build relationships and collaborate with others, both internally and externally.  
▪ High analytical ability to evaluate and illuminate data and criticize texts. | ▪ Experience in working in an international environment. Proven international mobility. |
| **Knowledge and experience**   | ▪ The candidate should have a solid background in cardiovascular (patho)physiology and methods for investigating this. |                                                                           |
| **Qualifications, certification and training (relevant to role)** | ▪ MSc degree in physiology, pharmacology, life sciences or a related discipline, allowing the applicant to register for a doctoral degree |                                                                           |
| **Statutory, legal or special requirements** | **Eligibility criteria for Early Stage Researchers in Marie Skłodowska-Curie ITNs**  

The University of Nottingham is focused on embedding equality, diversity and inclusion in all that we do. As part of this, we welcome a diverse population to join our work force and therefore encourage applicants from all communities, particularly those with protected characteristics under the Equality Act 2010.
Expectations and behaviours

The University has developed a clear set of core expectations and behaviours that our people should be demonstrating in their work, and as ambassadors of the University’s strategy, vision and values. The following are essential to the role:

**Valuing people**
Understands that it is essential to provide a structure that people can thrive in. Knows how to communicate with people to create a healthy working environment and get the best out of people.

**Taking ownership**
Communicates vision clearly, providing direction and focus. Knows how to create a productive environment where people are inspired and can work cross-departmentally in partnership.

**Forward thinking**
Has the ambition to be a pioneer in own area, anticipating the future change, needs and challenges. Knows how to innovate within their work context and champions others to be inspired to be part of this ambition.

**Professional pride**
Keeps up to date on latest thinking, trends and work practices. Supports team to be thought leaders; willing to challenge if obstacles get in the way.

**Always inclusive**
Establishes far reaching partnerships, well beyond own area across a broad range of networks. Understand role to pay due regard to the needs of the whole community.

Key relationships with others

- **Line manager**
  - INSPIRE PI

- **Role holder**
  - MSCA ESR

- **Key stakeholder relationships**
  - PhD Supervisors
  - INSPIRE ESRs