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| Job title | Marie Skłodowska Curie Actions: Early Stage Researcher (MSCA ESR) | Job family and level | Research & Teaching Off Scale |
| 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 develop an integrated *in vivo* approach to assess the cardiovascular safety of growth factor inhibitors. It will utilise novel *in vivo* methods to investigate mechanism of action, combining skills in both physiology and pharmacology to develop assays and interpret findings. The roleholder will also implement state-of-the-art imaging strategies to facilitate cardiovascular assessments. The project will evaluate the cardiovascular effects of anti-cancer therapies, such as vascular endothelial growth factor (VEGF). This is particularly important, as many patients develop hypertension, or become resistant to treatment – presenting major challenges in oncology.

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) | % time per year |
|---|---|------------------------|
| 1 | <p>To plan and conduct research to address the following aims</p> <ul style="list-style-type: none"> ▪ Develop an integrated <i>in vivo</i> approach to assess the cardiovascular safety of growth factor inhibitors ▪ Utilise novel <i>in vivo</i> methods to investigate mechanism of action, combining skills in both physiology and pharmacology to develop assays and interpret findings ▪ Implement state-of-the-art imaging strategies to facilitate cardiovascular assessments ▪ Evaluate the cardiovascular effects of anti-cancer therapies, such as vascular endothelial growth factor (VEGF). This is particularly important, as many patients develop hypertension, or become resistant to treatment – presenting major challenges in oncology. | 65% |
| 2 | To establish and consolidate collaborations with other INSPIRE ESRs | 10% |

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| 3 | To execute at least two external short-term secondments at partner institutions. | 15% |
| 4 | To present results in several environments including <ul style="list-style-type: none">▪ Project meetings and group meetings▪ Peer-reviewed journals▪ National and international conferences | 10% |

Person specification

| | Essential | Desirable |
|--|--|---|
| Skills | <ul style="list-style-type: none"> ▪ 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. | <ul style="list-style-type: none"> ▪ Experience in working in an international environment. Proven international mobility. |
| Knowledge and experience | <ul style="list-style-type: none"> ▪ The candidate should have a solid background in cardiovascular (patho)physiology and methods for investigating this. | |
| Qualifications, certification and training (relevant to role) | <ul style="list-style-type: none"> ▪ 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 | <p>Eligibility criteria for Early Stage Researchers in Marie Skłodowska-Curie ITNs http://ec.europa.eu/research/participants/data/ref/h2020/wp/2014_2015/main/h2020-wp1415-msca_en.pdf</p> | |



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



