



## Candidate Information

|                                    |   |
|------------------------------------|---|
| <b>Position:</b>                   | Research Assistant in Vascular Biology                |
| <b>School/Department:</b>          | School of Medicine, Dentistry and Biomedical Sciences |
| <b>Reference:</b>                  | 23/110575   |
| <b>Closing Date:</b>               | Monday 20 February 2023                               |
| <b>Salary:</b>                     | £29,619 per annum                                     |
| <b>Anticipated Interview Date:</b> | Wednesday 1 March 2023                                |
| <b>Duration:</b>                   | Fixed Term 24 Months                                  |

### JOB PURPOSE:

To assist in the planning and delivery of research activity carried out within the research team of Dr Guilherme Costa (<https://gcosta064.wixsite.com/costa-lab>). We are seeking an enthusiastic and motivated individual who will support projects related to RNA biology in the context of blood vessel formation. The successful candidate will be an integral pillar within the team, who will run experiments, support diverse projects, and help with lab organisation and procurement. Thus, the post is suited to applicants with a meticulous work ethic and a team-player approach to lab work. Applicants must demonstrate such skills within their CV and interview. The successful candidate will be offered support to access diverse training and career development opportunities. The post is initially available for two years, with the opportunity for renewal for two additional years.

### MAJOR DUTIES:

1. Undertake basic research activities that include laboratory experiments, critical evaluation and interpretation of results, computer-based data analysis and evaluation of research literature in consultation with the supervisor and postdoctoral researchers.
2. Present regular progress to team members and collaborators to update project contributors on research findings.
3. Participate in the production of research manuscripts and contribute with data for the write-up of research proposals.
4. Introduce and train new members to general lab practice and specific methods.
5. Train and supervise BSc and MSc students.
6. Carry out routine administrative duties as requested, e.g. arranging research group meetings, organising lab inventories and procuring reagents / materials.
7. Read academic papers, journals and textbooks to keep abreast of developments.
8. Carry out any other duties designated by line manager within the general ambit of the post.

### ESSENTIAL CRITERIA:

1. Honours degree in subject relevant to research activity (e.g., biology, biomedical sciences, biochemistry).
2. One years recent hands-on experience in at least 2 of the following:
  - Cell culture
  - Fluorescence microscopy
  - Protein work (e.g. mass spectrometry, immunoprecipitation)
  - RNA work (e.g. RNA isolation, cDNA synthesis)
3. Ability to clearly communicate instructions detailed in protocols and manuals.
4. Meticulous approach to experimental procedures and excellent record keeping skills.
5. Ability to contribute to method improvement where required.
6. Competent in maintaining knowledge of cutting-edge techniques in the field.
7. Ability to independently troubleshoot protocols.
8. Ability to communicate scientific topics and research findings.
9. Ability to interact with research colleagues and support staff.
10. Ability to analyse and communicate effectively with internal and external parties.
11. Demonstrable intellectual ability.

12. Excellent organisational skills.
13. Motivated, ambitious and team-player.
14. Excellent problem-solver.
15. Open to work irregular hours including evenings and weekends.
16. May be required to travel to collaborative laboratories, nationally and internationally.

**DESIRABLE CRITERIA:**

1. Masters and/or PhD in biomedical sciences.
2. Knowledge of endothelial biology or RNA-protein interactions.
3. Original research publications in peer-reviewed journals commensurate with career stage.
4. Experience in staff training and student supervision.
5. Experience in research project management.
6. Knowledge of angiogenesis, RNA binding proteins.
7. Knowledge of and contribution towards proposal preparation and writing.
8. Contribution towards research articles.
9. Participated with presentations at scientific meetings.
10. Previous experience in a similar research post, with evidence of protocol development and optimisation.
11. No objections to work with animals.