

**PERSON SPECIFICATION**

Senior Research Associate – Molecular Electronics for Next-Generation Memristors

**Vacancy Ref: 0314-25**

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| **Criteria** | **Essential/ Desirable** | **\* Application Form/ Supporting Statements/ Interview**  |
| PhD in Physics, Physical Chemistry or other discipline related to experimental molecular electronics | Essential | Application form |
| Experience of working in a laboratory environment | Essential | Application form |
| Ability to contribute to publications in high quality journals and to present work at international conferences | Desirable | Application form |
| Experience of depositing organic / organometallic thin films (for example by molecular self-assembly or Langmuir-Blodgett deposition) | Essential | Supporting statement / interview |
| Expertise in characterising thin film organic/organometallic materials  | Essential | supporting statement / interview |
| Knowledge of nanoscale electrical transport in organic/organometallic materials | Essential | Supporting statement / interview |
| Expertise in using scanning probe microscopy for characterisation of thin film organic/organometallic materials | Desirable | Supporting statement / interview |
| Expertise in on-surface electrochemical characterisation thin film organic/organometallic materials | Desirable | Supporting statement / interview |
| Ability to work both independently and within a multidisciplinary team | Essential | Supporting statement / interview |
| Ability to provide leadership to an interdisciplinary project defining research objectives, prioritising and planning research to drive project progress. | Essential | Supporting statement / interview |
| Ability to prepare and deliver regular research updates (presentation and reports) to consortium partners | Essential | Supporting statement / interview |
| Ability to provide day-to-day guidance to junior research colleagues including PhD and Maters students  | Essential | Supporting statement / interview |
| Ability to provide day-to-day laboratory management including management of resources and preparation of appropriate health and safety documentation. | Desirable | Supporting statement / interview |

* **Application Form** – assessed against the application form, curriculum vitae and letter of support. Applicants will not be asked to answer a specific supporting statement. Normally used to evaluate factual evidence eg award of a qualification. Will be “scored” as part of the shortlisting process.
* **Supporting Statements** - applicants are asked to provide a statement to demonstrate how they meet the criteria. The response will be “scored” as part of the shortlisting process.
* **Interview** – assessed during the interview process by either competency based interview questions, tests, presentation etc.