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| Human Resources |  | Date of Completion: 09/03/2021Page: 1 of 1 |

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| **PERSON SPECIFICATION****Assessment for recruitment requirements and competencies** |

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| **POST TITLE:** | **Beamline Scientist, I15-1** |
| **DIVISION/DEPARTMENT:** | **Science** |
| **REPORTS TO:** | **Principal Beamline Scientist** |

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|  |  | **ESSENTIAL (E) DESIRABLE (D)** |
| **SKILLS/ABILITIES** | * Good interpersonal, communication and presentational skills;
 | E  |
|  | * Ability to interact effectively with staff and facility users at all levels;
 | E  |
|  | * Ability to work flexibly with occasional weekend and out of hours working;
 | E  |
|  | * Ability and initiative to get to the heart of the problem and take it effectively through to completion;
 | E  |
|  | * Ability to work as part of a multi-disciplinary team;
 | E  |
|  | * Ability to follow Health, Safety and Environmental policies and procedures
 | E |
|  | * Self-motivation;
 | E  |
|  | * Must be available to travel occasionally in UK and overseas including overnight absences;
 | E  |
|  | * Excellent observational skills;
 | E  |
|  | * Good organisational and planning skills;
 | E  |
|  | * Ability to manage a small team.
 | D |
| **KNOWLEDGE AND EXPERIENCE** | * An independent research program in a science area relevant to the beamline;
 | E  |
|  | * Experience and knowledge of synchrotrons;
 | E  |
|  | * Experience in data processing and analysis for XRD;
 | E  |
|  | * Experience in beamline X-ray optics and X-ray instrumentation, including X-ray detectors;
 | D |
|  | * Experience of total scattering methods;
 | E |
|  | * Detailed knowledge of scattering theory;
 | D |
|  | * Experience with PDF analysis programs such as PDFgui, TOPAS, RMCProfile or EPSR;
 | E |
|  | * Experience in Python, Jython, Java or C++;
 | D |
|  | * Experience with Windows/Linux/Unix;
 | E |
|  | * Demonstrated ability to develop an independent research program and successful scientific publication record;
 | D |
|  | * Experience of beamline design and construction;
 | D |
|  | * Experience in supporting Scientists in the conduct of research in a synchrotron or equivalent facility;
 | D |
|  | * Project management experience.
 | D |
| **PROFESSIONAL**  | * Appropriate first degree or equivalent;
 | E  |
| **QUALIFICATIONS/ TRAINING** | * PhD degree/Second degree in chemistry, physics, Earth science, materials science or related discipline;
 | E  |
| \*Where a job requirement | * Post-doctoral experience in a relevant science area: chemistry, physics, material science.
 | D |