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| Human Resources |  | Date of Completion: Nov 2016  Page: 1 of 1 |

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

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| **POST TITLE:** | Mechanical Design Engineer |
| **DIVISION/DEPARTMENT:** | Technical Division |
| **REPORTS TO:** | Senior Mechanical Project Engineer |

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|  | **ESSENTIAL (E) AND DESIRABLE (D) CHARACTERISTICS** |
| **KNOWLEDGE**  **AND**  **EXPERIENCE** | * Good background in mechanical engineering (E) * Excellent working knowledge of engineering drawings (E) * Design experience of materials selection, joining and manufacturing techniques(E) * Working knowledge of CREO/Pro-E and PDM-Link (D) * Experience in using ANSYS or other FEA package (D) * Experience in Ultra High Vacuum (UHV) technology (D) * Experience in micron precision mechanism design (D) * Experience with motion control systems Experience of overseeing manufacture, assembly, testing and commissioning of systems (D) * Experience of working within a QA system (D) * Good appreciation of project management (D) * Good working knowledge of AutoCAD 2D (D) * Competent in Microsoft office suite (D) |
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| **SKILLS/ABILITIES** | * Ability to provide ideas and creative solutions Advanced level knowledge of a 3D CAD system with significant hands on experience. (E) * Ability and initiative to get to the heart of a problem and take it efficiently through to completion. (E) * Demonstrate good oral and written communication skills with peers, customers and suppliers (E) * Ability to work in a team (E) |
| **PROFESSIONAL** | * Degree in in Mechanical Engineering / Mechatronics or equivalent in relevant discipline (E) * IMechE accredited Masters degree (D) * Engineering Council registration and membership of relevant professional body (D) |
| **QUALIFICATIONS/** |  |
| **TRAINING** |  |
| **OTHER COMPETENCIES** | * Must be available to travel on work related business with some overnight stays occasionally. (E) |