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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)
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| **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)
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| **QUALIFICATIONS/** |  |
| **TRAINING** |  |
| **OTHER COMPETENCIES** | * Must be available to travel on work related business with some overnight stays occasionally. (E)
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