**Job Description**

**Job Title: Technical Specialist- Informatics**

**Career Level: 3**

**Department or Business Sector:**   **Informatics, DE**

**Location**: Coventry/Liverpool, UK

**Reporting to (manager’s job title): Designated Resource Manager**

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| **Heading:** | **Description** |
| 1. **Job Purpose / Impact** | The Technical Specialist role is expected to provide a level of business and technical leadership, and proactively contribute and support the functioning and development of the technical areas of the team (technical governance, business development and project management). The role is expected to contribute towards projects, either as technical leader or work package leader, in line with MTC best practices.   * You will support the Informatics group in the leadership, development and deployment of projects around Data Science and AI, Digital Manufacturing Systems, Connectivity, Visualisation and Cyber Security, * You will lead project technical deliverables, taking ownership to ensure work meets or exceeds agreed customer requirements, and is delivered within agreed budgets and timescales. Where delegated, you will act as Technical Governance lead for project deliverables. * You will undertake innovative Engineering research work focused primarily on technology/manufacturing readiness levels (TRL/MRL) 3+, and able to demonstrate industrial project delivery. * You will support Senior Managers with a proactive approach in the identification, technical specification, and delivery of new and novel technology capability into the MTC, customers, or industrial members’ premises. * You will take the lead and ownership in proposal of new capability development projects that align with the Informatics team, and overall MTC strategy, and able to explore different routes for project funding (internal, industrial, or CR&D funding); * You will lead horizon scanning activities for the Informatics area of technologies and new approaches to solving industrial problems across a range of industrial sectors; * Coaching and mentoring to colleagues as required, is an essential part of your role to support the development of leadership and management capability across the business. |
| 1. **Communication** | Able to demonstrate an excellent standard of verbal and written communication skills;  Must be able to communicate to all levels of the business in a professional and courteous manner, to support all parts of the business to run as one MTC to deliver corporate objectives;  Able to demonstrate the use of coaching and mentoring to support colleagues and transfer knowledge in area of expertise to others, within own department and wider MTC colleagues, proactive in Support training and development of team members;  You will lead customer and internal partner liaison in collaborative projects to ensure overall project delivery and direction, able to lead technical liaison with customers during project delivery;  Demonstrable commercial awareness;  Show ownership of Health and Safety to ensure own and your colleague’s health (both physical & mental), proactively reporting any concerns, near-misses or accidents. |
| 1. **Innovation** | Generation of key project and strategic initiatives in alignment with Informatics’ strategy, actively supporting to develop the theme business and technology strategy in your specific area of expertise;  You will take the lead and ownership in proposal of new cross-sector capability development projects that align with the Department, Technology Theme, and overall MTC strategy, and are able to explore different routes for project funding (internal, industrial, or CR&D funding);  Involved with horizon scanning of technologies and new approaches to solving industrial problems across a range of industrial sectors;  Able to lead engagement with existing customers to win repeat business;  Able to identify and support continuous improvement in technical aspects of the MTC’s project delivery capability including: behaviours; processes; structures; and, tools. |
| 1. **Knowledge** | At least 5 or more years' recent and substantial work experience on relevant manufacturing systems in industrial manufacturing or R&D environments;  Broad experience with design and development of digital system solutions in applications for manufacturing, logistics, infrastructure and/or similar;  Demonstrable and broad industrial experience with Industry 4.0 reference architectures and Systems Engineering methodologies, system modelling tools and performing customer requirements analysis from OT and IT perspectives;  Adopt industry best practices and technologies to architect IT and OT solutions that appropriately integrate into the overall technology footprint;  Industrial experience of enterprise system deployments and Operational Technologies (OT) elements within manufacturing (i.e. cloud, MES, SCADA, IOT frameworks etc.);  Working knowledge of cyber security frameworks for IT & OT environment;  Knowledge of industrial communication protocols like:   * OPC-UA * MQTT;   Expert knowledge of at least one of the high level programming languages (Python, C#, Java, C/C++ or Rust) with an understanding of DevOps best practises;  Experience in technical proposal writing and technical leadership;  Experience of having produced and reviewed technical reports and / or guidance materials on engineering or science topics;  Excellent research skills;  Excellent report writing skills;  Excellent presentation skills. |
| 1. **Person Specification** | All aspects of the role are to be carried out as an exemplar within the business in adhering to the MTC RIGHT way:   * Acting responsibly, putting MTC’s interests ahead of personal ambition; * Providing inspirational leadership to all who come in contact with you; * Delivering in the broadest sense a great working environment; * Leading with humility, honesty and integrity in all that you do; * Promoting teamwork, supporting through difficult times and collectively celebrating our successes.   In addition:  Demonstrable substantial and recognised expertise in a specific area relevant to Informatics. Expert knowledge of the manufacturing sector and deep understanding of manufacturing systems and technologies;  Ability to translate complex industrial requirements to technical delivery team;  Ability to provide technical leadership in a team;  Demonstrable experience of leading projects or larger programmes;  Committed to work collaboratively and network effectively, able to recognise the contribution of others and team-work with a one MTC mind-set;  Pragmatic hands on experience, providing problem solving approach and who is willing to physically participate in completion of work when required.  Self-motivated and a self-starter, with the ability to work autonomously to meet deadlines, budgets and quality expectations, both within a team, or independently.  Experience working where subsequent adherence to associated process and policy is critical to maintain customer confidentiality.  In addition:  Whilst not obligatory, there is a preference that you are willing and able to apply for Developed Vetting security clearance by the UK Government and undertake duties associated with this level of clearance;  Behaviours – MTC holds a high standard of professional behaviour and conduct of all colleagues; the environment across The MTC is one of collaboration. Colleagues are supported by leaders across the business to be empowered to challenge all colleagues in the MTC Right Way that is respectful and constructive. |