|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| 3P Innovation Job Description | | | | |  |
|  | | | | |
| **JOB TITLE:** | Senior Controls Engineer |  | EMPLOYEES RESPONSIBLE FOR: | Dependent on opportunities |
|  |  |  |  |  |
| REPORTING TO: | Controls Group Manager |  | DEPARTMENT: | Controls and Software |
|  |  |  |  |  |
| LOCATION: | Warwick |  | TRAVEL REQUIRED: | Approx. 5% per year |
|  |  |  |  |  |
|  | | | | | |
| Company Overview  3P innovation is Based at our office in Warwick. 3P innovation is a leader in the manufacture of automated machinery for the pharmaceutical, medical device and FMCG industries.  See Recruitment Brochure for more details on careers with 3P Innovation. | | | | | |
| JOb Purpose    The role requires a driven individual who is passionate about automation to work as part of a multi-disciplinary team creating bespoke automation solutions to solve our clients manufacturing and testing needs. The role includes PLC / HMI design, programming, commissioning, and problem solving throughout the full life cycle of a project from early-stage conception and sales support, through build and commissioning, and on to installation and aftermarket support.  The role can also include Robot programming, Vision systems, and any other technology that is required to meet our customers’ requirements. As the majority of our work is in the pharmaceutical sector quality is of great importance, our projects are expected to be validated in line with cGMP guidelines such as GAMP 5 and comply with industry regulations such as FDA 21 CFR11 and EU Annex 11. | | | | | |
| Key responsbilities and Duties | | | | | |
| 1. Designing, coding, commissioning, testing, and aftermarket support for our worldwide bespoke machinery | | | | | |
| 1. Discussion with clients and internal staff as part of a multiple discipline team to respond to requirements and design a concept | | | | | |
| 1. Aid with concept generation and estimation of cost and risk as part of our applications / sales work | | | | | |
| 1. Create validation documentation such as Software Design Specification, Test Records, and machine supporting documentation such as O&M manual, Software Release, Disaster Recovery | | | | | |
| 1. System validation including Factory Acceptance Testing (FAT), and onsite validation and handover to customer | | | | | |
| 1. Designing PLC and HMI/Scada software from scratch and making amendments/upgrades to existing systems. | | | | | |
| 1. Aid with continuous improvement of 3P standard code libraries and processes | | | | | |
| 1. Any other duties as requested that are linked to the growth of this department | | | | | |
| Essential knowledge, Skills and Abiltiies   * Must be fluent in both spoken and written English language * Must be authorised and willing to travel internationally (Travel typically less than 5% of time) * Experience with servo motion control * Experience working with communication protocols e.g. EtherCAT, Profinet, CAN, IP, Serial etc. * Beckhoff / Siemens control systems experience (either or both) | | | | | |
| **Desirable knowledge, Skills and Abiltiies**   * Familiarity with IEC61131-3 Structured Text, Object Orientated programming, and source control using git * Basic electrical knowledge and experience * Basic knowledge of mechanical and pneumatics principles * Experience working in the pharmaceutical industry * Familiarity with GAMP / 21CFR11 / Eu Annex 11 / GMP * Experience with developing Robots, Machine vision, SCADA / MES * Experience with .net and SQL | | | | | |
| **Qualifications and Education Requirements**   * 5+ years of experience designing PLC and HMI/SCADA software from scratch and making amendments/upgrades to existing systems. | | | | | |

|  |  |
| --- | --- |
| **Our Values** (Principles) | |
| Innovation | Experimentation: Embrace the continual development of new processes, ideas, and solutions. |
| Adaptability: Commit to learning and evolving in response to challenges. |
| Problem Solving: Foster an environment that encourages solutions and creative breakthroughs. |
| Collaboration | Learning and Sharing Knowledge: Knowledge shared is knowledge squared. Build collective expertise by exchanging information across teams. |
| Support and Teamwork: Actively work together, not just alongside, to achieve shared goals. |
| Clear and Open Communication: Effective collaboration requires clarity, transparency, and accountability. |
| Integrity | Trust and Accountability: Build and maintain confidence through transparency, honesty, and consistency. |
| Respect for Others: Foster a supportive and inclusive environment where all perspectives are valued. |
| Dependability and Openness: Ensure reliability in actions and openness in communication to strengthen relationships. |

|  |
| --- |
| **Management Responsibilities**  If applicable please see management responsibilities matrix. |

|  |
| --- |
| **Subject to change**  The responsibilities outlined above provide a general overview; however, additional duties may be assigned as necessary to meet departmental objectives. |