



CAREER OPPORTUNITY / VACANCY

Job Title	:	Software Engineer
Department	:	Maintenance Department
Employment Type	:	Permanent
PURPOSE OF THIS POSITION		
<p>The Software Engineer shall provide support to Operations by designing, maintaining, optimising, improving and upgrading control systems throughout all facets of the business.</p> <p>Productivity</p> <ul style="list-style-type: none"> • To provide technical support to end users, personnel within the Engineering Department and third-party Contractors. • To troubleshoot from a software and hardware perspective. • To develop new systems and modify and maintain existing systems to ensure optimal performance. • To develop functional descriptions. • To produce drawings and BOQs. • To manage and implement projects from conception, execution, commissioning to hand over. • To ensure downtime objectives are achieved. • To ensure project objectives are achieved. • To perform scheduled maintenance routines (routine debugging, routine backups, etc). • To be involved in new projects and implementations. • To ensure corrective actions in the event of breakdowns. • To maintain the appointed Championship. • To use RCA methods to ensure permanent repairs and modifications are realized • To implement Continuous improvement projects. • To assist the operations wherever necessary to improve the cost base. <p>Quality</p> <ul style="list-style-type: none"> • To ensure that all systems are in good working order at all times to prevent quality defects. • To ensure that workmanship is of a high calibre preventing rework and unnecessary downtime. <p>Safety</p> <ul style="list-style-type: none"> • To comply in all respects with government legislation regarding electrical installations. • To ensure relevant procedures are drawn up, implemented and maintained. • To actively participate in the operations safety programme. • To stay abreast of all relevant legislation. • To ensure a zero-injury rate is achieved. • To ensure the integrity of all safety devices on all machines and equipment. 		



- To ensure that all installation work undertaken must meet accepted standards and to comply at all times with the OSH Act.
- To maintain the appointed Championship.
- To identify and report potential risks or issues concerning machines, equipment or personnel that could lead to financial or operational damage.

EDUCATIONAL REQUIREMENTS

- Bachelor's Degree in Engineering or National Diploma Electrical Engineering or Electrician Trade Test Certification
- 3 years related experience in a process industry working with Siemens, ABB, Allen Bradley and OMRON
- Ideal: Degree Engineer with extensive programming and automation experience

KNOWLEDGE, SKILLS AND ABILITIES

- Have expert knowledge on control systems, logic, automation and integration in an industrial environment.
- Have expert knowledge on programming and software development.
- Have expert knowledge of PLCs including Siemens S5 and S7 as well as Rockwell Allen Bradley and OMRON including software and programming (STEP7, TIA portal, etc)
- Have expert knowledge of troubleshooting from a software and hardware perspective.
- Have expert knowledge of SCADA, HMI, DCS, WinCC including development, modification and maintenance.
- Have expert knowledge of motor control hardware (VFD, Soft Starters, DOL, Inverters, etc), both AC and DC.
- Have expert knowledge on communication protocols (ProfiBus, ProfiNet, Ethernet, Fibre Optics).
- Have expert knowledge on functional description development.
- Have expert knowledge in creating user defined functions.
- Have good knowledge of process instrumentation and automation field equipment (such as flow meters, consistency transmitters, level transmitters, pressure transmitters, proximity switches, limit switches, encoders, valve actuators, pneumatics, hydraulics, etc) and their associated control loops.
- Have good knowledge of transformers, power factor corrections and switch gear.
- Have good knowledge of CAD and simulation tools.
- Have good knowledge of industrial robots like FANUC or KUKA
- Have good knowledge of integrated electrical safety systems.
- Be able to draw electrical schematics and develop BOQs.
- Be able to manage and implement a project from conception, execution, commissioning to hand over.
- Be able to coach, mentor and train personnel within the department.
- Be able to work outside normal hours as required.
- Be able to work well under stress and high pressure.
- Be able to take responsibility, ownership and accountability.
- Be able to work independently or as part of a team.
- Have strong analytical and reasoning skills with an ability to visualise processes and outcomes.



- Have exceptional trouble shooting and fault-finding skills.
- Have passion for solving problems and provide workable solutions.
- Have a good knowledge of a process industry (preferably paper making and paper converting related).
- Have excellent all-round communication skills and ability to work collaboratively.

ADDITIONAL REQUIREMENTS

- This is a permanent position within the Electrical Department
- Based in Ga-Rankuwa with working hours from 07:00 till 17:00 Monday to Thursday and 07:00 till 14:30 Friday.
- Will be expected to assist with breakdowns and call outs after hours when required.

APPLICATION FOR THIS POSITION

- Your **CV** must please be submitted to **Shamiek Narrandes** via e-mail: snarrandes@upap.co.za
- Closing date: **30 April 2020**
- Open for all candidates who meet the minimum criteria.