

Organizational Context & Job Purpose

INEOS is a manufacturer of petrochemicals, specialty and intermediate chemicals and polymers. INEOS includes 68 manufacturing facilities in 14 countries throughout the world with approximately 15,600 employees. INEOS' annual turnover is around \$33bn making it the 3rd largest chemical company in the world. INEOS is a customer-focused company and our business mission is to be the supplier of choice to our customers.

INEOS Bio is an exciting new business that is commercializing a highly innovative technology platform for the production of clean biofuel and renewable power from a wide range of low-cost carbon materials including household waste. A demonstration-scale facility is currently beginning construction in Vero Beach, Florida at a cost of ~\$130 million. The project is called the "INEOS New Planet Bio ethanol (INPB) Project" and is a JV between INEOS Bio and New Planet Energy. The plant will be operated by INEOS Bio.

This position will support the Project in the detailed design of the instrument, DCS and control aspects. The ideal engineer would be experienced in process control, distributed control systems and instrumentation.

The detailed engineering design is being progressed by AMEC in Greenville, SC and the post holder would be required to be based Monday to Friday in Greenville up to about the end of October 2011. After that the role would move on a permanent basis to the construction Site in Vero Beach.

Purpose of the Role

- To be a member of the INPB Project Management Team. .
- To make safety the number one priority and to pro-actively demonstrate safe behaviours and demand safe behaviours from everybody associated with the Project.
- To ensure that E&I standards are met during design & construction.

Responsibilities & Accountabilities

RESPONSIBILITIES:

- To provide owner co ordination of all issues associated with the plant instrument, and control systems to ensure the as built plant meets the business expectations.
- To manage the interface on E/I/DCS matters between the Project Team and EPC Contractor.
- Providing input on selection of equipment, review, and approval of specifications.
- Design input and review of EPC contractor and vendor packages for power distribution (including variable speed motors and drives), instruments, PLC systems control and safety valves, all field instrumentation and the Process Control System and architecture.
- Understand company HSSE practices, policies and procedures, including the impact of

- I&E equipment and operations as well as familiarity with Industry Standards.
- Participating in cross-functional teams to optimize plant designs for cost effectiveness, reliability, and maintainability.
- Participating in Process Hazard Analysis studies (PHA)
- Participating in testing and evaluation of process control hardware and software.
- Start-up support
- Maintaining ongoing awareness of new developments in hardware and software technologies.
- To support the commissioning activities for E/I/DCS to ensure these systems are commissioned to schedule.
- To represent the INPB Project in a respectful and positive manner at all times.

Skills & Knowledge Required

REQUIREMENTS:

- Strong safety and environmental performance
- Experienced in the PLC/DCS/SIS architecture & configuration
- Strong ability to work with others.
- Strong communication and networking skills.
- An ability to manage work priorities to deliver real performance improvements in a busy and demanding work environment.
- Strong knowledge of safety and the pro-active application of new techniques to improve safety performance.
- Ability to set priorities based on business needs and strategy.
- Strong bias for action to identify potential problems and co-ordinate their resolution before they become an issue. Continual enthusiasm and a desire to assist the team improve performance.
- Strong basic engineering skills with knowledge of control, instrumentation and electrical equipment.
- Detailed knowledge of various electrical Codes (e.g. NEC and ANSI / IEEE) and industry instrumentation standards as applied to petrochemical facilities, working with I&E designers, Process Safety Management (PSM), Management of Change process, and Capital Value Process (CVP).
- Experience of process control hardware, software, and associated computer system and infrastructure.
- Ability to extract process and equipment performance information into 3rd party database software for trending and reporting
- Knowledge of high and medium voltage systems is desired
- Review sizing and selection of instruments and control valves
- Review design and implementation of Safety Instrumented Systems (SIS)
- Extensive experience with PLCs and programming is a plus
- Project engineering or and experience leading projects is a plus
- Strong written, verbal, and interpersonal skills are essential to perform this role.
- Ability to travel to various engineering contractors' offices and project sites

Education and Experience: The successful candidate should have a minimum of a BS degree in Electrical Engineering, Control Engineering or related subject and at least 5 years

of related experience in power, electrical and process instrumentation, and control. Experience with the technical design and support of ethanol or petro-chemical projects is required. Basic knowledge of distributed control systems and programmable logic controllers is required.

The preferred candidate will have held a similar position that interfaced with staff engineers, engineering contractors, craftsmen, operators, vendor engineers, and sales representatives.

How to Apply / Additional Information

Please submit your resume to biocareers@ineos.com and mention the job you are applying for in subject line.