

Job Description: Control and Instrument Engineer

Summary: An excellent career opportunity is currently available for a Process Engineer within the R&D centre of Pyrotech Workspace Solutions Pvt. Ltd located in IIT Guwahati Research Park, Assam India. We are looking for an experienced control and instrumentation engineer to be responsible for the design and implementation of basic and advanced control solution for disinfection system for Air and surface disinfection. The successful candidate will be able to implement the smart sensor and control algorithms to operate the system trouble-free and maintain the efficiency, reduce cost, improve sustainability and maximize profitability.

Responsibilities

- Propose new innovative control and instrumentation solution by adopting conventional and AI based control algorithm for control room solution and hygiene of the workplace.
- Design and fabrication of IoT enabled controller and respective instrumentation for Air and surface disinfection system (chemical, chemical free and advanced oxidation process) in collaboration with process engineer and project engineer
- Assess the controller performance
- Design, run, test and upgrade controller performance
- Development of mobile app / APIs to connect the controller to enable IoT solutions
- Develop best practices/ standard operating procedure, routines and innovative solutions to improve production rates and quality of output
- Manage cost and time constraints
- Perform risk assessments
- Provide process documentation and operating instructions

Requirements

- Proven record on controlled development and implementation experience in chemical process and quick prototype development
- Excellent technical skills
- Knowledge of electrical, control and instrumentation related standards
- Experience in use commercial microcontroller and its integration with smart sensors and IoT solution
- Experience in AI modelling and its implementation of process control and automation application
- Experience in process simulations using commercial software like MATLAB, Dymola, Lab view and similar tools
- Technical documentation skills using MS Word/ Excel / PowerPoint
- Familiarity with health and safety regulations
- Analytical thinker with interpersonal skills
- B.E/ BTech / ME/ MTech degree in Electrical / Instrumentation and control/ computer science/ Electronics and communication

Selected candidates will be working under mentorship of Dr. Senthilmurugan Subbiah, Associate Professor, Department of Chemical Engineering, Indian Institute of Technology-Guwahati Guwahati 781039 Assam, India.

Suitable candidate is requested to email CV to Sumeel Doshi, Head of HR, Pyrotech Workspace Solutions Pvt. Ltd, email id sumeel@pyrotechworkspace.com