

CHEMICAL ENGINEER - CLEAN TECHNOLOGY

Arisdyne Systems, Inc. is the pioneering authority in the use of hydrodynamic cavitation to produce biofuels. Arisdynes in-house research team is at the forefront of the clean alternative fuel industry with more than 20 U.S. patents and 50 international patents applying to biofuel innovation. The company is dedicated to designing new and better biofuel systems to help our environment and have a positive impact on the U.S. economy.

Summary:

Design and develop manufacturing processes for bio-fuel new and existing equipment.

Work in collaboration with the Chief Technical Officer and Vice President Operations to develop and define equipment specifications and cost estimations to design and develop new equipment and systems and provide all required documentation for all equipment and systems.

Duties:

- Conduct research to develop new and improved chemical processes for bio fuels.
- Design and oversees workers engaged in manufacturing, controlling, and improving equipment to carry out chemical processes for bio fuel equipment.
- Analyze operating procedures and equipment and machinery functions to reduce processing time and cost.
- Design equipment to maximize output of bio fuel equipment.
- Designs and plans measurement and control systems for chemical plants based on data collected in laboratory experiments and pilot plant operations.
- Performs tests and takes measurements throughout stages of production to determine degree of control over variables such as temperature, density, specific gravity, and pressure.
- Specify new equipment /review vendor capabilities and quotes related to procurement.
- Design new equipment, redesign existing equipment, and modify process flows and conditions to improve quality or economics of production processes.

Education and/or Experience:

Chemical Engineering degree with ten (10) years experience in the development and/or application of oleo-chemicals with enzyme and catalyst technologies. Our ideal candidate must be familiar with production process for bio-fuels and ethanol production. Completed a relevant independent chemistry research project or must have relevant research experience. Good writing skills. Independent work in laboratory with independent thought into experimental details. Background must include experience with analytical or scientific software, chemistry computer aided design CAD software, data base user interface and query software to develop system designs that are accurate and provide for seamless system assembly.

Proficient in the use of Microsoft Office Suite (Word, Excel, Outlook,) and ability to learn new software systems adopted by the company. Must be able to communicate and collaborate effectively throughout the organization to achieve company goals and expected results.

Our ideal candidate must understand the safety requirements for carrying out various processes, read and understand the MSDS, and have the necessary skills to work with hazardous materials or air sensitive materials for example.

Arisdyne Systems offers a challenging and collegial work environment, salary commensurate with experience and comprehensive benefits package that includes 401(k) plan, medical, dental, disability, life insurance and many other benefits.

Please include Chemical Engineer in the subject line of your reply. Please send resume with salary history to grlevar@sthrm.com in Microsoft Word format. No third party resumes or telephone calls. EOE M/F/D/V

CHEMIST - CLEAN TECHNOLOGY

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Summary:

Provide chemistry analysis and support for new and existing equipment. Provide analytical chemical support for laboratory, pilot and production activities within Arisdyné Systems, Inc. Work in collaboration with the Chief Technical Officer and Vice President Operations to develop and define equipment specifications and cost estimations to design and develop new equipment and systems and provide all required documentation for all equipment and systems.

- Strong analytical chemistry experience with fats, oils and derivatives, catalysis, enzymes
- Participate on teams in product development, technology development, and applications, including taking a lead role in support of ethanol yield enhancement project in collaboration with OARCD in part of the Third Frontier Award Engineering Grant.
- Performs daily lab work that furthers Arisdyné Systems technical R&D project list.
- Help analyze of the chemical composition, structure, and properties of substances and of the chemical processes and transformations that they undergo.
- Analyze organic and inorganic compounds to determine chemical and physical properties, composition, structure, relationships, and reactions, utilizing chromatography, spectroscopy, and spectrophotometry techniques.
- Develop, improve, and customize products, equipment, formulas, processes, and analytical methods.
- Compile and analyze test information to determine process or equipment operating efficiency and to diagnose malfunctions.
- Confer with scientists and engineers to conduct analyses of research projects, interpret test results, or develop nonstandard tests.
- Assist in writing technical papers and reports and prepare standards and specifications for processes, facilities, products, or tests.
- Prepare test solutions, compounds, and reagents for laboratory personnel to conduct tests.
- Study effects of various methods of processing
- Other duties as assigned by manager or management

Education and/or Experience:

Degree in Chemistry with ten (10) years experience in the development and application of oleochemicals with enzyme, catalyst technologies, and familiarity production process for bio-fuels and ethanol production. Our ideal candidate must be familiar with production process for bio-fuels and ethanol production. Completed a relevant independent chemistry research project or must have relevant research experience. Good written and verbal communication skills. Independent work in laboratory with independent thought into experimental details. Background must include experience with analytical or scientific software, chemistry computer aided design CAD software, data base user interface and query software to develop system designs that are accurate and provide for seamless system assembly.

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