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## **Job Opportunity: Chemist I**

**Location:** Pelham, Alabama

### **About the Company:**

ICT was founded in 1993 and has built a worldwide reputation as a results-oriented company serving the electric power industry, CHP and other industries utilizing natural gas, coal, oil and biomass. ICT's services include:

- Expert know-how, technical and engineering services to electric generating units and other combustion systems.
- A full array of performance, diagnostic and environmental testing services per EPA methods, ASME, ASTM, AMCA and ISO standards as well as specialized testing methods developed by ICT.
- Performance, capacity and safety enhancements on pulverized coal and other solid fuel systems.
- A SCR catalyst testing laboratory at pilot, bench and micro bench scale and an XRF laboratory to troubleshoot catalyst deactivation problems.
- Laboratory fuel testing to support our customers with quality control, fuel specification, trouble-shooting and R&D.
- Field services, analytical services and training to support our customers' needs and objectives associated with performance optimization, troubleshooting, emissions compliance and reliability.
- Design and manufacturing of specialized testing equipment and performance optimization equipment used with combustion systems

### **Position Description:**

The **Chemist I** will produce accurate and timely analytical data following established methods, procedures and quality control protocols and will primarily work in the fuel analysis lab and in the SCR catalyst testing facility.

- Perform analysis on biofuels, coal, and other materials for heating value, elemental composition, ash mineral analyses, fusion temperatures and other physical and/or chemical properties.
- Conduct controlled condensate method testing for SO<sub>2</sub>-SO<sub>3</sub> conversion and XRF (X-ray fluorescence) analysis of catalyst samples in the pilot-scale SCR catalyst testing facility.
- Develop lab procedures and SOPs in accordance with established testing protocols and improve ICT's laboratory practices and analytical systems to enhance quality and efficiency.
- Maintain adequate inventory of chemicals, reagents, glassware, equipment, and other supplies necessary for the completion of assigned analytical tests.
- Maintain required records, perform calculations and prepare reports.
- Perform and document preventive and routine laboratory equipment maintenance and calibrations, preparation of reagents and maintaining inventory of bottled analytical and calibration gases.

### **Qualifications:**

- Bachelor's degree in Chemistry plus two years previous lab experience preferred.
- Appropriate Certification by American Institute of Chemistry or other accredited certifications.
- Proficient in use of basic lab equipment; balances, spectrophotometers, pH meters, ovens, desiccators, etc.
- Familiarity with XRF, calorimeter, mercury and thermogravimetric analyzers.
- Experience in developing and following testing procedures and rigorous QA/QC programs.
- Experience and familiarity in the electric power industry or other industrial is preferred
- Strong technical, communication, computer skills (Proficient with MS Office and Adobe Suite)
- Applicants must be legally authorized for employment in the United States and will not require employer sponsored work authorization now or in the future for employment in the United States.

### **Compensation and Benefits:**

Competitive pay or salary commensurate with qualifications and experience and benefits that include 401K, dental insurance, medical insurance, paid company holidays, and 12 paid days off a year to be used as vacation, personal or sick days. Innovative Combustion Technologies, Inc. provides a unique environment that fosters individual growth and rewards performance of our productive team members.