



UNIT OPERATIONS

OFFICIAL NEWSLETTER OF THE AKRON SECTION

APRIL STUDENT NIGHT AND TOUR OF THE
UNIVERSITY OF AKRON INFOCISION
STADIUM

Frank Horn

We will be beta testing new content management software that National has recently selected for all the websites developed by and linked to the National site. Development of the website will be starting soon. The content has already been supplied to the web developer at National.

OTHER ACTIVITIES

We are looking into Group tickets for a Family Night with the Akron Aeros. Canal Park is a wonderful place to watch baseball. This will be set up for a June or July evening game. Usually group tickets can be purchased for a very reasonable price. Look for more details in the May newsletter.

OTHER UPCOMING EVENTS

COE Spring Banquet
April 22nd

Department of Chemical and Bioengineering
Advisory Board Meeting
April 24th

June/July AICHE Akron Aeros Family Night -
Details to follow.

JOB POSTINGS

The following opportunities have been provide to Akron AIChE.

Each opportunity is presented in detail in the following pages. (NOTE: Some descriptions are more detailed than others, so scroll down to the opportunity of interest.)

New This Month

No new opportunities posted this month.

Previous Job Postings

Electrical Engineer or Technology Degree to improve reliability of a bulk handling terminal's DC electrical system—Chicago, IL.

Senior Engineering Group Leader –
Greensboro, NC

Chemical Engineer – Greensboro, NC

International Field Service Engineer – Primarily the American coasts

Chief Engineer for Oil Field Division – Lufkin, Texas

Research & Development/Application Engineer – Northeast Texas

Principal Engineer (or Sr. Engineer, DOE),
Chemical - Illinois

Power Generation Excitation and Controls
National Sales Manager – Relocation not necessary

SR. Process Engineer – Tyler, Texas

SR. Project Manager – Tyler, Texas

Project Engineer (Two Positions Available) –
Tyler, Texas

Junior to Mid-Level Chemical or Mechanical
Engineer – Ohio/West Virginia Border

Each opportunity is presented in detail in the pages that follow the schedule of meetings and

JOB POSTINGS

Senior Engineering Group Leader – Greensboro, NC

We currently seek a high caliber Senior Engineering Group Leader and a Chemical Engineer for the Process Technology division of a global chemical development and manufacturing company based in Greensboro, NC.

Senior Engineering Group Leader

Description

- Lead the process engineering resources in Process technology department.
- Develop and promote an effective core engineering group and site-integrated network in the division that will provide innovative, low cost engineering solutions, to meet the regional business needs within established time horizons, while ensuring strong links with the global engineering network.
- Lead the process engineering function within the Process Technology
- Manage projects through evaluation, design, definition and

- Understanding of division/global engineering processes and how to align resources to meet company objectives
- Understanding business and financial models and how they translate into engineering solutions
- Advanced degree in Chemical engineering
- Strong background in chemical engineering, with some cross-functional experience
- Experience of participating in and leading groups
- Experience of managing technology and engineering groups, with a track record of success
- Experience in managing external interfaces (regulatory, contractors, suppliers...etc)
- Strong technical (process engineering) skills

Charles Leeson
Business Development Representative/Technical Recruiter

TRS Staffing
100 Fluor Daniel Drive C201A
Greenville, SC 29607
W: 864-281-8853
M: 864-354-5417
F: 864-676-7639
charles.leeson@trsstaffing.com

Visit our website <http://www.trstaffing.com>, you can login/register to apply directly for jobs with one click, receive our jobs via e-mail service and update your resume.

Chemical Engineer

Role purpose

Knowledge of process engineering, plant design, capital cost estimate and economic analysis. Make contribution to discovery of inventions and application, evaluate new business opportunities. Process design and scale up, including lab to pilot plant and to commercialization.

Improve manufacturing efficiency and product quality, enhance process capability, and reduce operational costs for established manufactures.

Accountabilities

- Assess potential market value of new product ideas. Conduct feasibility study or conceptual engineering design with financial analysis.
- Strategically apply technologies to support new, major business opportunities. Define projects to meet business needs, future trends and regulations in manufacturing.
- Provide engineering and technical expertise with ability to manage multiple projects.
- Communicate with cross functional experts.
- Provide leadership in the implementation of technology and process. Provide detailed work plans with priority and goal to achieve project on time, in-budget with high quality and safety performance.
- Lead efforts and gather basic information to achieve process development goals. Select the best process option to be used and determine the sequence of operation and requirement of special equipment.
- Perform scale-up and pilot trial including assessment of scale-up issues, process design, and equipment selection. Computer simulation with “what if” analyses; the results will combine with experimental data and financial analyses to design process and equipment
- Provide technical expertise on process optimization to improve safety, quality, capacity, profitability, performance, and yield of current products. Gather and evaluate relevant data in order to troubleshoot and resolve problems to reduce product and process variation.
- Generate timely, cost effective and innovative solutions to solve problems in manufacturing process. Ensure compliance with all government regulations and Company HS&E policies.

- Ethanol process knowledge and/or production experience will be a plus

Critical experience

- Advanced Degree in Chemical Engineering (PhD Preferred) with minimum 3 years experience in process development and unit operation, advanced degree is preferred. Will consider senior level candidates
- Experience in continuous improvement efforts for products/processes to support plant objectives of safety, quality, cost, and productivity improvement.
- The candidate should have a broad exposure to unit operations, and have experience in starting up and troubleshooting equipment.

Critical technical, professional and personal capabilities

- Excellent communication, organizational and time management skills. Strong interpersonal skills. Take initiative and exercise good judgment. Ability to lead decision-making.
- Proactively work with other functions involved in production and global supply. Ability to interact with cross-functional teams on both technical and business level. Ability to operate in a matrix organization; interact and influence senior stakeholders.
- Project Management skills with financial analysis capability.

Additional information

- All applicants must be eligible to work in the U.S.
- Knowledge of ethanol production and/or experience in renewable fuels will be a plus.
- 30-40% Travel (between Greensboro and division sites, as well as plant trials.)

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F: 864-676-7639
charles.leeson@trsstaffing.com

Visit our website <http://www.trstaffing.com>, you can login/register to apply directly for jobs with one click, receive our jobs via e-mail service and update your resume.

International Field Service Engineer

My new client on the East Coast is a leading power generation services company which has retained me to identify a Field Service Engineer who enjoys either domestic or international travel (75%).

The successful candidate will be primarily involved in visual inspections ("eye-balling") of steam generator equipment (boilers), inspecting equipment for problems, suitability of application and remaining life. This individual will walk inside boilers with a set of drawings, using scaffolds or cherry pickers, inspecting welds and appropriate equipment.

He/she must be comfortable inside boilers, (must be able to handle sitting on planes for extended periods, working in hot and cold environments, confined spaces, etc). Will analyze failed equipment (but no engineering analysis on site) and write reports on findings. Will also have a small role in training.

The appropriate candidate will have either a Bachelor's degree or commensurate experience. This individual will not only have appropriate technical skills but also must maintain the personal confidence and interpersonal skills to work effectively with engineers, managers and technical people on site.

International sites are largely Western (i.e. "developed") countries and located in larger urban areas. My client does not maintain any facilities in "war risk" countries. Most travel will be to South America, Europe and Israel with very limited travel to Asia, Thailand, and India.

Career Upside: someone with these skills and proven success has both very strong horizontal and vertical career opportunity within this large corporation. Field service engineering is considered the most valuable skill-set by this company. Almost every senior executive (marketing, sales, engineering, operations) including the President started their careers with this organization as a field service engineer.

Location: this candidate can live anywhere in the United States with a preference being toward the coasts or at least within commutable distance to a major hub, to help facilitate travel.

Support: though this person will be traveling alone, they will have a very strong and effective "back office" support from corporate.

Formal Description:

Field Engineers are responsible for assisting customers at their plant sites with equipment start-ups, solving operational and maintenance problems and helping them meet their plant operational objectives. This is an excellent opportunity for self-motivated, flexible individuals who enjoy challenging and diverse job responsibilities.

The incumbents will be responsible for providing advice and guidance on the commissioning, operation, maintenance, efficiency, and reliability of fossil fired steam generator equipment and systems.

Activities include:

- (1) Scheduling and managing steam generator equipment commissioning and inspections
- (2) Inspecting equipment for problems, suitability of application, and remaining life

- (3) Analyzing failed equipment
- (4) Writing detailed reports
- (5) Optimizing plant performance
- (6) Training plant personnel
- (7) Testing equipment

Duties will also include analyzing, planning and conducting evaluations of a variety of technical tasks requiring the application of general engineering knowledge of power plant equipment. In this position, the incumbent will also act as the Company's representative in resolving and reporting on general technical and logistics problems while maintaining good customer relations and protecting the interest of the company. Will also conduct inspections, commissioning or test programs within estimated resources while ensuring that the quality of services will not be impaired.

Candidate must meet the Minimum Requirements for the job:

Must live and be authorized to work in the U.S. (no H1B visas will be considered at this time). Bachelor's in Engineering or related field or combination of education and experience. Minimum 5 years experience in power industry or related field. Boiler and/or environmental technology in a power plant environment or related field. Ability to travel 75-80% internationally. Hands-

Chief Engineer for Oil Field Division

Location: Lufkin, Texas

Presented by: North American Recruiting and Consulting

Job Code: CRT0711

Client Overview:

We have an Exclusive Search for this position with our client, Lufkin Industries, which is located in Lufkin, Texas, a town in East Texas with a population of approximately 35,000 people and is about two hours North of Houston and two hours South of Tyler. In 2002, Lufkin Industries, Inc. celebrated a full century of service to its customers around the world, an auspicious milestone for a company that began as a small machine shop in Lufkin, Texas.

- Act as a consultant to Lufkin Industries pumping unit sales, service personnel, and customers on field service problems to ensure customer satisfaction.
- Handle the budget responsibilities of approximately \$20 Million
- Oversees the Engineering Manufacturing Processes of foreign plants in Canada, Argentina, and Egypt
- Advise on metallurgical questions arising from company departments such as Purchasing, Manufacturing Engineering, Machine Shop, Heat Treatment, and Foundry, to help prevent future problems in that area.
- Stay apprised of competitive equipment designs, evaluate, and compare them with Lufkin Industries' product design to ensure their continued competitive advantage.
- Assist joint ventures and other Lufkin Industries' owned facilities in drawing and specification interpretation to maintain quality.
- Special projects as assigned
- Management of a team of 5 Engineers and 10-12 CAD Designers and willingness to interface on a regular basis with external sales force, direct customers, and ability to Travel up to 15-20% of the time and 5% of that will be International.

Requirements/Qualifications:

-

Mobile Line: 903-618-0066

E-Mail: bob.turner@narecruiting.net or dr.bobturner@earthlink.net

Web Site: www.narecruiting.net

Research & Development/Application Engineer

Location: North East Texas

Presented by: North American Recruiting and Consulting

Job Code: CRT0716

Client Overview:

3. Lead in new product development and commercial launches for their product's use as identified by Business Management. Serve as a conduit of technical communication for product development activities initiated by their overseas R&D organization
4. Make recommendations to customers concerning their use of our client's product, test and evaluation methods and equipment
5. Obtain performance data of our client's product using lab, pilot, and field tests
6. Assist the manufacturing group in the implementation of new product production methods and the optimization of existing process technologies
7. Prepare reports on projects and activities
8. Participate in relevant professional organizations, trade shows and conferences. Author and/or co-author technical papers for publication at these events or other media
9. Travel to visit customers (10% to 15%). Overseas travel is Possible.

MUST HAVES:

- Bachelors Degree in Chemical Engineering or a Chemistry Degree—At A Minimum; Advanced Degree in one of these disciplines PREFERRED, i.e., a Ph.D.
- R&D Experience in Chemical Engineering or Chemistry or Chemical Manufacturing
- Experience with carbon/coal materials
- 3 (Three) years or more of full time direct involvement in advanced technical projects focusing on the use carbon/coal in various applications; professional (industrial/business) experience, including customer, applications support
- Ability to interact on a technical level with both internal scientific and engineering personnel, and customer technical staffs, and make some engineering calculations
- Ability to interact with internal production personnel while involved in projects to manufacture new products, or to improve on existing manufacturing techniques
- Ability to solve technical issues in a laboratory environment
- Computer literacy required (Word processing, spreadsheet, database, graphics, and presentation software)
- Good written and oral communications skills, good interpersonal skills
- Ability to respond quickly and effectively to a variety of technical challenges. Capable of coordinating multiple projects for different internal and external customers, simultaneously
- Ability and willingness to Travel 20% to 30% of the time
- Creative problem solving skills, and data analysis skills

Preferred Skills/Talents:

- Demonstrated success in performing technical service work in support of sales and customers
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Tyler, Texas 75703

Direct Line: 903-561-6928

Mobile: 903-618-0066

E-mail: bob.turner@narecruiting.net or dr.bobturner@earthlink.net

Web Site: www.narecruiting.net

Power Generation Excitation and Controls National Sales Manager

Sales Manager with 10+ years of Power Industry Controls experience to sell excitation systems, maintenance/repair services, and controls retrofits into the industrial and utility steam turbine markets. The position requires a BS Degree in Engineering or equivalent experience in controls and excitation products and services. Digital & Analog Control System, Excitation System and Turbine Hydraulics knowledge required as well as understanding of the Steam Turbine technology. The successful candidate must have well developed sales skills, be self-managed, computer literate, have strong interpersonal skills - both written and verbal - demonstrated ability to close orders and experience with the proposal & bid preparation process. This position will report to CSD located in Ft Collins, CO. Relocation not required; significant domestic travel. Pay: 80k – 100k base, 60k commission, benefits.

Send your resume to krobinson@METSjobs.com or contact Kim Robinson 770-754-9200.

Kim Robinson, Managing Partner
METSjobs
316 Maxwell Road, Suite 400
Alpharetta, GA 30004
770 754-9200 office
770 751-1728 fax

SR. PROCESS ENGINEER

Location: Tyler, Texas
Presented by North American Recruiting and Consulting
Job Code: CRT0697

Client Summary:

Our client is directly involved in: Process Solutions for the Oil and Gas Industry

They are a global provider of process equipment packages and separation products to the oil and gas industry. Using both cutting edge and conventional technologies, they aim to supply their customers with the most cost effective solution that helps them achieve product specifications.

Although their emphasis is in the oil and gas industry, their products and services are applicable to others including petrochemical, refining, steam production and power generation. Their goal is to be the leader in oil and gas separation technologies through a talented and innovative workforce and their commitment to product development.

They were founded and incorporated in 1985 to design and manufacture process equipment packages and custom designed process internals. Since their inception almost 20 years ago, many of their customers have been E&C companies, fabrication companies, or vessel suppliers. Companies familiar with our client have enjoyed their quality products and on-time deliveries. They continue to receive the highest honor possible from their customers; that is, their repeat business. Our client is known as an expert in the design and supply of process equipment and custom separation products for both onshore and offshore projects.

Their focus is to provide optimal solutions for the entire production system through an integrated design approach using our state-of-the-art separation technologies and know-how.

Essential Functions:

- Assist Engineering Manager with detailed process design work
- Design and size oil, water and gas separation equipment and processes and our client's specialty equipment
- Review drafting work on participating projects
- Perform heat and material balance calculations to provide equipment operational changes
- Perform Computational Fluid Dynamics analysis on vessels and our client's proprietary equipment using Gambit and Fluent software
- Assist Engineering Manager with verifying accuracy and applicability of our client's

presented through spoken words and sentences.

Written Comprehension — The ability to read and understand information and ideas presented in writing.

Oral Expression — The ability to communicate information and ideas in speaking so others will understand.

Speech Recognition — The ability to identify and understand the speech of another person.

Deductive Reasoning — The ability to apply general rules to specific problems to produce answers that make sense.

Speech Clarity — The ability to speak clearly so others can understand you.

Problem Sensitivity — The ability to tell when something is wrong or is likely to go wrong. It does not involve solving the problem, only recognizing there is a problem.

Detail oriented, honest, friendly, efficient

Compensation:

Base Salary Range (doe): \$80-100K; This position IS BONUS ELIGIBLE; Excellent Relo;
Excellent Benefits Package

Contact Information:

Bob Turner, Ed. D., President
North American Recruiting and Consulting
826 Ashford Court
Tyler, Texas 75703
Work Phone: 903-561-6928
Mobile Phone: 903-618-0066
E-mail: bob.turner@narecruiting.net or dr.bobturner@earthlink.net
Web Site: www.narecruiting.net

SR. Project Manager

Location: Tyler, Texas
Presented by North American Recruiting and Consulting
Job Code: CRT0710

Client Summary:

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Their focus is to provide optimal solutions for the entire production system through an integrated design approach using our state-of-the-art separation technologies and know-how.

Summary:

This position is responsible for the management of projects from contract award through delivery of both domestic and international projects.

Essential Functions:

- * Perform detailed check of the specified scope and engineering requirements of the project
- * Prepare Project Execution Plan including preparing and monitoring project schedule for engineering, drafting, procurement and fabrication
- * Complete coordination and expediting of all project requirements through all departments and disciplines, including engineering, procurement, QA/QC and detailed involvement in all aspects of the fabrication at the workshop level, including being stationed at overseas fabrication yards for the final stages of fabrication
- * Focal point of communication between all parties involved in the project, i.e. client, third party inspectors, sub-vendors, in-house departments
- * Evaluation of sub-vendor tender proposals, based on technical and customer requirements with the Procurement Manager with the responsibility to give overall approval to all purchases on the project

- * Meet project delivery and budget constraints and reporting cash flow to President, Vice President and Controller
- * Quality control of projects, ensuring package is manufactured in accordance with the client specification and general fabrication standards
- * Review, verification and control of all project documentation
- * All project liaison between clients and sub-vendors on a daily basis
- * Address and follow up all technical/commercial issues and clarifications with client and sub-vendors
- * Update senior management (General Manager, President and Vice President) regularly on project progress and report any major concerns
- * Responsible for approving all project invoices
- * Confer with management, production, engineering and marketing staff to discuss project specifications and procedures
- * Coordinate and direct projects, making detailed plans to accomplish goals and directing the integration of technical activities
- * Plan and direct the design, installation, fabrication and testing of facilities and equipment
- * Direct, review, and approve product design and changes
- * Recruit employees, assign, direct, and evaluate their work, and oversee the development and maintenance of staff competence
- * Prepare budgets, bids, and contracts, and direct the negotiation of research contracts
- * Develop and implement policies, standards and procedures for the engineering and technical work performed in the department, service, laboratory or firm
- * Perform administrative functions such as reviewing and writing reports, approving expenditures, enforcing rules, and making decisions about the purchase of materials or services
- * Review and recommend or approve contracts and cost estimates

Work Activities:

1. Communicating with Supervisors, Peers, or Subordinates — Providing information to supervisors, co-workers, and subordinates by telephone, in written form, e-mail, or in person
2. Making Decisions and Solving Problems — Analyzing information and evaluating results to choose the best solution and solve problems
3. Getting Information — Observing, receiving, and otherwise obtaining information from all relevant sources
4. Communicating with Persons Outside Organization — Communicating with people outside the organization, representing the organization to customers, the public, government, and other external sources. This information can be exchanged in person, in writing, or by telephone or e-mail
5. Updating and Using Relevant Knowledge — Keeping up-to-date technically and applying new knowledge to your job
6. Coordinating the Work and Activities of Others — Getting members of a group to work together to accomplish tasks
7. Establishing and Maintaining Interpersonal Relationships — Developing constructive and cooperative working relationships with others, and maintaining them over time
8. Analyzing Data or Information — Identifying the underlying principles, reasons, or facts of information by breaking down information or data into separate parts
9. Guiding, Directing, and Motivating Subordinates — Providing guidance and direction to subordinates, including setting performance standards and monitoring performance
10. Identifying Objects, Actions, and Events — Identifying information by categorizing, estimating, recognizing differences or similarities, and detecting changes in circumstances or events

Supervisory Responsibilities:

Able to identify and resolve problems in a timely manner and gather information skillfully
Able to speak clearly and persuasively in positive or negative situations, demonstrates group presentation skills, and conducts meetings
Gives high attention to details
Willing to make decisions
Make timely decisions
Exhibit sound and accurate judgment
Prioritize and plans work activities

