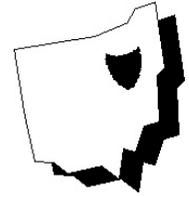




# UNIT OPERATIONS

OFFICIAL NEWSLETTER OF THE AKRON SECTION AIChE



February 2009

## UPCOMING MEETINGS

### March Meeting

#### Advanced Controls for Thermal Systems - Presented by Watlow

Paul Johnson and Dan Trompeter from Watlow will present background, theory and application of advanced heater control systems including silicon controlled rectifiers (SCR) solid state control devices. The seminar provides one contact hour of continuing education credit.

**DATE:** Thursday, March 26th

**LOCATION:** **Crave Restaurant**  
57 East Market Street  
Corner of Market & High  
Akron, Ohio 44308  
330-253-1234  
[www.eatdrinkcrave.com](http://www.eatdrinkcrave.com)

**Crave** has been in business for 3-1/2 years and is a favorite location for UA students.

**SCHEDULE:** 6:00 Dinner  
7:00 Program

**COST:** **\$20 (\$5 students and unemployed members)**

**RSVP:** **Tom Flynn by Mar. 23rd**  
at (330) 860-6630 or  
[tjflynn@babcock.com](mailto:tjflynn@babcock.com)

After a long period of inactivity the Akron Section of AIChE is reviving its local activities. Please feel free to notify members and non-members of this meeting.

### April Meeting

#### University of Akron Student Night

**DATE:** TBD

**LOCATION:** **InfoCision Stadium and Department of Chemical Engineering on UA campus**

**PROGRAM:** 5:30 pm Tour  
7:30 pm Social/Dinner

**RSVP:** We are still working out logistics for this meeting.

### May Meetings

#### Joint ASME/AICHE Meeting Tour of B&W Research Center

**DATE:** Thursday, May 12th  
**LOCATION:** 180 S. Van Buren Ave.  
Barberton, OH  
**PROGRAM:** 6:00 pm Tour  
7:00 pm Social/Dinner  
**RSVP:** TBA

#### Joint Cleveland/Akron Meeting

**DATE:** Thursday, May 21<sup>st</sup>  
**TOPIC:** Ohio & Erie Canal History and Operation  
**LOCATION:** Quality Inn, Richfield, OH,  
Fireside Room  
**SPEAKER:** Dan Schuster

## FEBRUARY EWEEK BANQUET

February 16-21 was Engineers' Week. Akron AICHE members **Dan Jones** and **Bartev Sakadjian** participated in the Mayor's Proclamation Ceremony.

Receiving the proclamation from Akron Mayor Don Plusquellic is host society chair Frank Bronzo. From left to right are dignitaries and EWeek members: David Williams, Robert Hochevar, Mark Elicker, Gerard Neugebauer, Summit County Engineer Alan Brubaker, Mark Van Auken, Akron City Engineer Ralph Coletta, Brent Sisler, **Daniel Jones**, **Bartev Sakadjian**, Louis Cseko, and Gregg Loesch.



**Robert Gessner**, President of the University of Akron Student Chapter of AIChE received the 2009 University of Akron Outstanding AIChE Senior Award. In addition to being the student chapter president, Robert is a member of the UA AIChE Chem-E Car design team, served as Senator in UA's Associated Student Government, received the UA Scholarship for Excellence and carries a 3.71 GPA. He has accepted an offer with Lubrizol at one of their Texas facilities. The \$500 award was presented by Tom Flynn, Chair of the Akron Section of AICHE.



**Mark Elicker** and **Cane Alabakovski** hosted the Chem E Car display at the Engineers Week Banquet along with **Robert Gessner** (left to right).



## SCIENCE FAIR RESULTS

**Joe Feil** and **Ann Lastuvka** judged at this year's Akron Science and Technology Expo which was held on Saturday, February 7, 2009 at North High School. The winner of this year's AIChE award for Best Chemical Engineering Project was **Jonathon Stone**. Jonathon attends St. Vincent High School. The title of his project is "BIOC-E DNA Extraction & Analysis of Dormant Acer Saccharum Marsh Seeds." Jonathon received a \$75 award.

The Western Reserve District 5 Science Day will be Saturday, March 21, 2009 at the University of Akron Student Center. As always judges are needed to help out. Volunteer if you can. It is actually quite fun.

## HOPPIN' FROG BREWERY TOUR AND DINNER AT SIAMONES – FEBRUARY MEETING

On Thursday, February 26<sup>th</sup> the Hoppin' Frog Brewery sponsored a tour of their facilities. The tour was provided by Joe Kearns, Assistant Brew Master and Brenda O'Connor, Product Manager. The Hoppin' Frog Brewery was started in 2007. They specialize in high-end premium beers. The staff was very friendly and knowledgeable. Siamones Thai Restaurant features many of the Hoppin' Frog beers. The Thai dishes were delicious.

Joe Kearns instructs AIChE visitors (left to right) Behrooz Ghorishi, Barteve Sakadjian, Joe Feil, Jennifer Cerney, Malinda Nelson, Dan Jones and Vijay Parekh on the fundamental ingredients of beer.



## OTHER UPCOMING EVENTS

6<sup>th</sup> Annual Alumni Appreciation Night  
Department of Chemical and Biomolecular Engineering  
April 4<sup>th</sup>  
5:00 PM – 8:00 PM  
Student Union Game Room  
Family members are invited.  
RSVP to [uaaiche@yahoo.com](mailto:uaaiche@yahoo.com) with Alumni Night in the subject header and number of guests attending by March 9<sup>th</sup>.

COE Spring Banquet  
April 22<sup>nd</sup>

Department of Chemical and Bioengineering Advisory Board Meeting  
April 24<sup>th</sup>

## **OTHER ACTIVITIES**

National started developing the draft website for the Akron Section. We will receive a draft copy of the website pages for review and comment.

## **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**

**Senior Engineering Group Leader – Greensboro, NC**

**Chemical Engineer – Greensboro, NC**

### **Previous Listings**

**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 Boarder**

Each opportunity is presented in detail in the pages that follow the schedule of meetings and list of officers. (NOTE: Some descriptions are more detailed than others, so scroll down to the opportunity of interest.)

## LOCAL SECTION SCHEDULE FOR 2008/2009

<b>DATE</b>	<b>TOPIC</b>	<b>LOCATION</b>	<b>SPEAKER</b>
March 26, 2009	Thermal Systems & Controls Seminar (CEU Credit)	TBA	Presented by Watlow
April, 2009	InfoCision Tour/Student Night	University of Akron	Frank Horn/Student Projects
May 12, 2009	B&W Research Center Tour	Barberton	Multiple speakers
May 21, 2009	Joint Cleveland Akron AICHE	Quality Inn Richfield	Dan Schuster
December 10, 2009	Joint ACS/AICHE Meeting	Tangiers	TBD

## **AICHE LOCAL SECTION EXECUTIVE COMMITTEE**

<b>Position</b>	<b>Name</b>	<b>Phone</b>	<b>E-mail</b>
Chair	Tom Flynn	(330) 860-6929	<i>tjflynn@babcock.com</i>
Vice-Chair	Vacant		
Secretary	Vacant		
Treasurer	Ann Corey	(330) 860-2370	<i>amcorey@babcock.com</i>
Government Interaction	Vacant		
E-week Representative	Bartev Sakadjian	(330) 860-6404	<i>bbsakadjian@babcock.com</i>
Public Relations	Vacant		
Membership & Awards	Vacant		
Newsletter/Webmaster	Vacant		
ACCESS Representative	Joe Feil	(330) 796-6613	<i>jnfeil@aol.com</i>
ACCESS Representative	Walt Ruthenburg	(330) 796-7385	<i>wruthenburg@usa.net</i>

### AIChE Web Sites

Local: A new website is being developed.

Current website: <http://members.core.com/~aiche> (Deactivated)

National: <http://www.aiche.org>

## **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 implementation phases, either directly or indirectly
- Lead a team of chemists and engineers, responsible for process development and production support
- Ensure successful technology transfers for new manufactures (either new products, or product transfers)
- Ensure best practice within the process engineering activities within division (leading peer reviews, risk reviews ...etc)
- Enhance the process engineering capabilities within division.
- Strong emphasis on staff development and building succession plans.
- Develop innovative, cost effective solutions, through networking, benchmarking and standards development within the division.
- Develop strong links with the engineering functions within other parts of division, to develop the global engineering capability
- Manage the challenges of networking with the production sites to ensure buy in and technical reliability for derived solutions to problems
- Establish division/global alliances to ensure resources are in place to meet future business needs
- Ensure procedures and processes are in place to effectively manage the division capital program
- Maintain excellent Division and global relations, while at the same time challenging assumptions and processes
- Establish cross-functional engineering teams to look at standards development for division process engineering
- Maintain HSE standards and technical integrity, while under pressure to meet challenging targets and timelines

##### Requirements

- Intimate knowledge of key engineering disciplines
- 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.

### Knowledge, experience & capabilities

#### Critical knowledge

- Broad knowledge of engineering principles on process/equipment design, unit operation, chemical synthesis, kinetic interpretation of reactions, DOE (design of experiments), statistical data analysis and process economics with cost estimate.
- Scale up criteria, fluid mechanics, mechanical separation and heat & mass balance, and process simulation using Aspen or Hysis. Equipment sizing calculations. Lab and pilot equipment design and operation.
- 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.)

Charles Leeson

Business Development Representative/Technical Recruiter

TRS Staffing

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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-on, mechanical aptitude. Ability to work with people. Must have excellent written and verbal communication skills.

Physical requirements:

Climbing, Balancing, Stooping/Crouching, Kneeling, Crawling, Reaching, Standing, Walking, Pushing & Pulling, Lifting up to 20 lbs, Grasping, Repetitive motion, Confined Space and must be able to fit through a hole 18" in diameter, Close visual acuity, the ability to work both inside and outside in varying weather elements and handle high volumes of noise.

Contact:

Nick Meyler  
GM/President, Technology  
Wingate Dunross Associates, Inc.  
28632 Roadside Dr. #203  
Agoura Hills, CA  
91301  
Phone: (818)597-3200 ext. 211  
nickm@wdsearch.com  
URL: www.wdsearch.com

## 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.

While Lufkin Foundry manufactured railroad and sawmill equipment during the early 20th century, the company expanded into new markets by pioneering Oilfield pumping units in the 1920's, and entering the industrial gear and truck trailer markets in 1939. Over the years, Lufkin has built a strong reputation as a quality manufacturer and full service provider in these markets.

Besides designing, manufacturing and marketing the industry standard conventional, Mark II and other rod lift pumping units that are used to lift oil from wells, the Oilfield Division provides pumping unit services (used unit refurbishment and sale, installation, field service, repair, and parts) and well automation products and services, through Lufkin Automation, (pump-off controllers, dynamometers, fluid level analysis, consulting, and training) that lower the costs of producing oil. Additionally, the Company operates a gray and ductile iron Foundry producing up to 300 tons per day of captive and commercial castings for the heavy equipment, valve and machine tool markets.

The Power Transmission Division makes precision-made gears in weights from 300 pounds to 250 tons and in power levels from 20 to 85,000 horsepower. These highly engineered products are used in industrial applications in a variety of industries, such as oil and gas, petrochemical, steel, plastics, sugar, rubber, marine and power generation. From its unique Gear Repair operations, Lufkin repairs virtually any manufacturer's gears and provides 24 hour emergency service to ensure minimum downtime in a customer's operations.

### Basic Function:

Accountable for the design of pumping units and for coordinating efforts to maintain and improve the design of these products to enhance Lufkin Industries' standing in the international market.

### Principal Accountabilities/Activities:

- Coordinate an efficient engineering section by providing necessary professional development and training to ensure growth and a positive environment for successful departmental operation.
- Direct project engineers and other design team leaders and review results to ensure that engineering work is accomplished according to established standards.
- Initiate and direct projects in product development and improvement to enhance the competitive standing of Lufkin Industry units
- 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:

- Must Have: Bachelor's Degree in engineering (prefer Structural, Mechanical, Industrial) from an accredited college or university
- Must Have: Total of 10-15 years of experience in the field
- Must Have: 5-10 years of experience in product design (Prefer Structural Design Experience)
- 5 years of experience working as a Structural Engineer (preferably) in an oil equipment manufacturing environment
- Effective leadership, organizational, and communication skills to manage technically-oriented personnel and to maintain effective working relationships with other department heads
- Ability to read, analyze, and interpret common scientific and technical journals
- Ability to respond to common inquiries or complaints from customers and regulatory agencies.
- Ability to effectively present information to the business community, top management, the Board of Directors, and when required function as an Expert Witness in a legal setting.
- Project Management Experience—Certification would be a Major Plus
- Experience in design for manufacturing
- Experience in product research and development—Preferred
- Solid Edge CAD experience Preferred or other CAD software
- Registered as a Professional Engineer—Preferred and a Major Plus
- Prefer Knowledge with Foundry Practices and Rotating Equipment (gears)
- Ability to become the Product Expert for Lufkin Industries

#### Compensation:

Base Salary \$100-120 K (doe); Bonus Target 15-30% of Base; Stock Options; Exceptional Benefits (Health, 401 K); Relo expenses

#### Contact Information:

Bob Turner, Ed. D., President  
 North American Recruiting and Consulting  
 826 Ashford Court  
 Tyler, Texas 75703  
 Direct Line: 903-561-6928  
 Mobile Line: 903-618-0066  
 E-Mail: bob.turner@narecruiting.net or dr.bobturner@earthlink.net  
 Web Site: [www.narecruiting.net](http://www.narecruiting.net)

## Research & Development/Application Engineer

Location: North East Texas

Presented by: North American Recruiting and Consulting

Job Code: CRT0716

### Client Overview:

Our Client is a leading supplier of consumables, components, systems and complete purification solutions. Founded in 1918, they have been active in virtually all industries throughout the world. Today they offer products, installations and services for the water, beverage, food, dairy, pharmaceutical, chemical, gas/air, mining, catalyst, sweeteners, and remediation industries. Their membranes, aseptic and hygienic valves, carbon dioxide and quality control rank among the worlds best! They offer global coverage with production, engineering and manufacturing facilities in seven countries and a network of dedicated sales and service centers, business partners and distributors in more than 100 countries around the world.

Their main product is used for the purification of a wide range of substances in all kinds of industries. In fact, virtually every product around the world manufactured today has been improved upon at least once by the use of their specific product. They are the world's number 1 supplier of their specific product and related services. They produce well over 150 different types of products to match any conceivable application. They serve the global market from two business units; North America's production facilities for the U.S., Canada, and South America, and their facilities in The Netherlands for Europe, Asia-Pacific, and Africa.

Their facility here in North East Texas has been in its location since the 1920's and has approximately 200 full time employees with a sister plant in Oklahoma. Their products are used in liquid and gas phase purification processes, and in the prevention of potentially harmful emissions. The Texas facility's revenue in 2007 was in the \$80 Million Dollar area. They are expecting an increase in business of 300% within the next couple of years. This facility works a 24/7 and is a Union plant.

This Plant/Maintenance Engineer will report to the Product Manager. This position is open due to an expectation of the 300% growth.

### Position Duties & Responsibilities:

The Development/Application Engineer will use their technical, scientific, and engineering knowledge and experiences to provide technical support to Customers, Field Sales, Manufacturing and Business Management in the areas where they are producing new products and existing applications for maintenance. The incumbent will provide technical information and services to solve purification problems and meet commercial needs related to the sale of their product and to develop innovative solutions to newly identified needs. Examples of the duties and responsibilities include:

1. Maintain a high level of technical expertise regarding the testing, characterization, and application of their existing product line
2. Develop a high level of technical expertise in new applications for the use of their product in emerging markets
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
- Travel experience to visit customers for application support
- Dedicated and Hard Working and very Results Oriented
- Experience with Testing or Applications related to Coal/Carbon
- Knowledge or training in physical/surface chemistry
- Gas-phase, liquid-phase and solid-phase reaction to produce carbon materials
- Carbon fiber/polymer composite produce

#### Compensation Information:

Base Salary between \$60-85 K, Depending on Experience; Exceptional Benefits Package including Medical/Dental Health, 401 K, Vacation, Paid Holidays, Disability, and Life Insurance

#### Contact Information:

Bob Turner, Ed. D., President

North American Recruiting and Consulting

826 Ashford Court

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

## **Principal Engineer (or Sr. Engineer, DOE), Chemical**

- Bachelors in Chemical Engineering or equivalent required., M.S. in ChE a plus
- Minimum 10 years chemical engineering experience
- Experience in design of chemical facilities modifications required
- Worked in a Union Environment a plus

It is Fortune 100 company, location IL

If you have any questions please let me know

Best regards,

Nina Morozova, PhD

941-923-9007

[www.talenteverest.com](http://www.talenteverest.com)

## **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](mailto: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.

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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.

### 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 Intellectual Process Property
- Review production and analyze the client's designs for possible improvement
- Visit and provide clients with ideas in discussions on their projects
- Communicate with other engineers to provide technical assistance
- Serve as Process Engineering Representative in production meetings in the absence of Engineering Manager
- Participate in team projects to develop customized software and troubleshoot operational problems

- Attend seminars/conferences for collecting ideas and keeping abreast of technology changes
- Product development participation
- Develop/verify/secure usage of in-house software
- Assist sales department with proposal development and client interaction
- Coordinate with other of our client's engineers to update, verify, approve and issue their Intellectual Process Property

#### Knowledge, Skills and Abilities:

Engineering and Technology — Knowledge of the practical application of engineering science and technology. This includes applying principles, techniques, procedures, and equipment to the design and production of various goods and services.

Mathematics — Knowledge of arithmetic, algebra, geometry, calculus, statistics, and their applications.

Design — Knowledge of design techniques, tools, and principles involved in production of precision technical plans, blueprints, drawings, and models.

English Language — Knowledge of the structure and content of the English language including the meaning and spelling of words, rules of composition, and grammar.

Physics — Knowledge and prediction of physical principles, laws, their interrelationships, and applications to understanding fluid and material used in this industry.

Administration and Management — Knowledge of business and management principles involved in strategic planning, resource allocation, human resources modeling, leadership technique, production methods, and coordination of people and resources.

Reading Comprehension — Understanding written sentences and paragraphs in work related documents.

Mathematics — Using mathematics to solve problems.

Active Listening — Giving full attention to what other people are saying, taking time to understand the points being made, asking questions as appropriate, and not interrupting at inappropriate times.

Critical Thinking — Using logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions or approaches to problems.

Complex Problem Solving — Identifying complex problems and reviewing related information to develop and evaluate options and implement solutions.

Active Learning — Understanding the implications of new information for both current and future problem-solving and decision-making.

Coordination — Adjusting actions in relation to others' actions.

Operations Analysis — Analyzing needs and product requirements to create a design.

Judgment and Decision Making — Considering the relative costs and benefits of potential actions to choose the most appropriate one.

Time Management — Managing one's own time and the time of others.

Oral Comprehension — The ability to listen to and understand information and ideas

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.

#### Additional Needs:

- Able to analyze complex or diverse process engineering information
- Able to delegate work assignments, give authority to work independently, set expectations and monitor delegated activities
- Able to include staff in planning, decision making, facilitating and process improvement
- 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 conduct meetings
- Gives high attention to details
- Willing to make decisions
- Make timely decisions
- Exhibit sound and accurate judgment
- Prioritize and plan work activities
- Use time efficiently
- Develop realistic action plans
- Actively promote and personally observe safety and security procedures

#### Supervisory Responsibilities:

- Process Engineers

#### Working Conditions:

- Office environment
- Possible domestic and international travel

#### Minimum Qualifications:

- Bachelor's Degree in Chemical Engineering
- 5 years relevant experience in oil and gas process engineering
- Immediate availability for employment in U.S.

#### Success Factors:

Detail oriented, honest, friendly, efficient

Compensation:

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

Contact Information:

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Web Site: [www.narecruiting.net](http://www.narecruiting.net)

## **SR. Project Manager**

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

### 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.

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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:

Supervise 1-2 project engineers/or assistants on a project specific basis. This position reports to the General Manager and the President/CEO

**Knowledge, Skills and Abilities:**

- \* Able to analyze complex or diverse information
- \* Able to delegate work assignments, give authority to work independently, set expectations and monitor delegated activities
- \* Management experience is a MUST
- \* Needs to show ability to manage project teams
- \* Able to include staff in planning, decision-making, facilitating and process improvement
- \* 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
- \* Requires very high attention to details
- \* Willing to make decisions in a timely manner
- \* Make timely decisions
- \* Exhibit sound and accurate judgment
- \* Prioritize and plans work activities and uses time efficiently
- \* Use time efficiently
- \* Develop realistic action plans
- \* Actively promote and personally observe safety and security procedures
- \* Use equipment and materials properly

**Working Conditions:**

Office, shop, domestic and regular international travel  
Some assignments may require up to 3 months travel duration

**Minimum Qualifications:**

1. Bachelor's degree in Engineering (preferable chemical)
2. 5 years of experience in project management
3. 5 years of experience in oil and gas industry (FPSO or Glycol packages Preferred)
4. Overseas experience (S.E. Asia) preferred
5. Immediate availability to work in United States

**Success Factors:**

Detail oriented, team oriented, proficient, honest, leadership abilities

**Compensation:**

\$80-120 K (doe) Plus Bonus; Excellent Health Benefits; Vacation; Relo Package; Great Professional Growth Opportunities

**Contact Information:**

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Tyler, Texas 75703  
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Mobile: 903-618-0066  
E-mail: bob.turner@narecruiting.net or dr.bobturner@earthlink.net  
Web Site: www.narecruiting.net

## **Project Engineer (Two Positions Available)**

Location: Tyler, Texas

Presented by North American Recruiting and Consulting

Job Code: CRT0709

### Client Summary:

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### Essential Functions:

- Apply standard practices and techniques and follow operation through series of steps and processes
- Review P&ID's, PFD's and all other project documentation
- Provide instrument engineering support to the procurement team
- Provide project engineering support to the engineering team
- Perform detailed check of the specified scope and engineering requirements of the project
- Project liaison between clients and sub-vendors on a daily basis
- Prepare RFQ files for procurement team and liaison with vendors
- Evaluation of sub-vendor tender proposals, based on technical and customer requirements
- Quality control of projects, ensuring package is manufactured in accordance with the client specification and general fabrication standards

### Supervisory Responsibilities:

- None

### Knowledge, Skills and Abilities:

- Able to analyze complex or diverse information
- Able to delegate work assignments, give authority to work independently, set expectations and monitor delegated activities
- Able to include staff in planning, decision-making, facilitating and process improvement

- 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
- Use time efficiently
- Develop realistic action plans
- Actively promote and personally observe safety and security procedures
- Use equipment and materials properly

Working Conditions:

- Office, shop, domestic and international travel (MUST BE WILLING AND ABLE TO DO INTERNATIONAL TRAVEL—UP TO 30%)

Minimum Qualifications:

- Bachelor's degree in Engineering required, chemical or mechanical preferred
- Experience with FPSOs, (Glycol) Preferred
- Immediate availability to work in United States

Success Factors:

Detail oriented, team oriented, proficient, honest, leadership abilities

Compensation:

Base Salary \$55-70 K (doe); This position is Bonus Eligible; Excellent Benefits; Excellent Relo Package

Contact Information:

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## **Junior to Mid-Level Chemical or Mechanical Engineer**

Location: Northern West Virginia/Ohio border.

Experience: 1-6 years in a production environment; knowledge of any of the following is a plus: predictive maintenance, equipment reliability, process improvement, capital projects & cost control. If that person had some training in six sigma &/or lean manufacturing & if they've worked in an FDA environment, so much the better.

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