**Application Engineer - Industrial Water Treatment**

**Sepratech Corporation**

**Location:** Houston, Baton Rouge, or New Orleans
**Travel:** 30-50% throughout Gulf Coast region

**About Sepratech**

Sepratech Corporation is a rapidly growing industrial water treatment company serving the Gulf Coast region, including Mississippi, Louisiana, Arkansas, Texas, and Oklahoma. Recently acquired by private equity, we are positioned for significant scaling and growth in both our service offerings and geographical penetration. Our leadership team consists of industry veterans with extensive experience at major publicly traded water companies, combining entrepreneurial agility with proven scalability processes.

**The Opportunity**

We are seeking a highly skilled Application Engineer to join our technical team during an exciting growth phase. This role is critical to our success, serving as the technical backbone for our sales efforts and ensuring optimal system performance for industrial clients across oil refineries, petrochemical facilities, power plants, food manufacturing, and data centers. You'll have the opportunity to work on cutting-edge water treatment technologies while supporting our aggressive expansion throughout the Gulf Coast.

**Key Responsibilities**

**Technical Design & Engineering**

* Design and specify industrial water treatment systems including raw water clarification, boiler feed purification, and wastewater treatment solutions
* Develop detailed P&IDs, equipment specifications, and technical drawings for customer projects
* Perform water chemistry analysis and system modeling to optimize treatment processes
* Conduct feasibility studies and technical assessments for complex industrial applications
* Size and select equipment including pumps, tanks, filtration systems, chemical feed systems, and control panels

**Project Support & Implementation**

* Provide technical support throughout project lifecycle from initial design through commissioning
* Collaborate with procurement and project management teams to ensure technical specifications are met
* Review vendor submittals and approve equipment selections for compliance with design requirements
* Conduct factory acceptance testing and witness testing of major equipment components
* Support field installation activities and provide technical guidance during construction phases

**Customer Technical Support**

* Serve as primary technical contact for complex customer inquiries and system troubleshooting
* Conduct site visits to evaluate system performance and recommend optimization strategies
* Prepare technical reports, performance guarantees, and compliance documentation
* Provide training to customer operations personnel on system operation and maintenance
* Support emergency response and system recovery activities as needed

**Sales & Proposal Support**

* Partner with sales team to develop winning technical proposals and cost estimates
* Participate in customer presentations and technical meetings to explain system capabilities
* Provide technical expertise during contract negotiations and specification reviews
* Support business development efforts by identifying opportunities for system upgrades and expansions
* Maintain competitive analysis of alternative technologies and treatment approaches

**Process Improvement & Innovation**

* Drive continuous improvement initiatives to enhance system efficiency and reduce operating costs
* Research and evaluate emerging water treatment technologies for potential implementation
* Develop standard design packages and technical specifications to support company scaling objectives
* Contribute to the development of proprietary treatment processes and intellectual property
* Support integration of newly acquired companies by standardizing technical approaches

**Ideal Candidate Profile**

**Education & Experience Requirements**

* Bachelor's degree in Chemical Engineering, Mechanical, Environmental Engineering, or related technical discipline
* Professional Engineer (PE) license preferred or ability to obtain within 2 years
* Minimum 5-7 years of experience in industrial water treatment design and application
* Experience with major industrial sectors including oil refining, petrochemicals, power generation, food processing, or data centers
* Familiarity with equipment manufacturers and suppliers in the water treatment industry

**Technical Expertise**

* Expert knowledge of water chemistry, treatment processes, and system hydraulics
* Experience with AutoCAD, SolidWorks, or other engineering design software
* Strong understanding of industrial codes and standards (ASME, API, AWWA, EPA regulations)
* Knowledge of membrane technologies, ion exchange, chemical treatment, and biological processes
* Experience with control systems, instrumentation, and SCADA integration

**Industry Knowledge**

* Understanding of industrial market dynamics and customer requirements
* Experience working with contractors, plant engineers, and operations personnel
* Knowledge of environmental regulations and permitting requirements
* Familiarity with water treatment companies such as Veolia, Xylem, Ovivo, MPW and Puretec
* Understanding of water-as-a-service business models and outsourced operations

**Skills & Competencies**

* Excellent technical writing and communication skills
* Strong project management and organizational abilities
* Proven ability to manage multiple complex projects simultaneously
* Customer-focused mindset with ability to build trust and credibility
* Problem-solving expertise with creative approach to technical challenges
* Proficiency with Microsoft Office Suite and project management software

**Personal Attributes**

* Entrepreneurial mindset with ability to thrive in fast-paced, growth-oriented environment
* High attention to detail and commitment to technical excellence
* Self-motivated with ability to work independently and make sound technical decisions
* Collaborative team player who can work effectively across departments
* Adaptable and resilient in dynamic business environment
* Strong ethical standards and professional integrity

**What We Offer**

**Compensation Package**

* Competitive base salary: $105,000 - $135,000 (commensurate with experience)
* Annual performance bonus: Percentage of base salary based on company performance (commensurate with experience)
* Participation in company success through equity opportunities
* Professional development allowance for continuing education and license maintenance
* Comprehensive benefits package including health, dental, vision, and life insurance
* 401(k) with company matching

**Growth Opportunity**

* Career advancement opportunities within rapidly expanding engineering organization
* Opportunity to lead major projects and mentor junior engineers as team grows
* Exposure to private equity-backed growth strategies and acquisition integration
* Potential to develop specialized expertise in emerging technologies and service offerings
* Path to senior technical leadership roles including Chief Technology Officer

**Professional Development**

* Access to industry-leading training programs and technical conferences
* Tuition reimbursement for advanced degree programs
* Support for professional engineering license and continuing education requirements
* Opportunity to contribute to technical publications and industry presentations
* Mentorship from industry veteran technical leaders

**Work Environment**

* State-of-the-art engineering tools and software platforms
* Collaborative environment with experienced technical professionals
* Opportunity to work on diverse and challenging industrial projects
* Access to pilot testing facilities and laboratory capabilities
* Participation in company success through potential equity opportunities

**Next Steps**

Join Sepratech during this exciting growth phase and help us establish technical leadership in the Gulf Coast industrial water treatment sector. This role offers the perfect opportunity to advance your engineering career while working on complex, high-impact projects with industry veterans who have the resources and expertise to achieve ambitious growth objectives.

To apply, please submit your resume along with a cover letter detailing your relevant industrial water treatment experience, technical expertise, and examples of successful project implementations. Please include any relevant certifications, PE license status, and notable technical achievements.