

JISOO BARNETT

INDUSTRIAL WATER PROCESS ENGINEER

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STRENGTHS

- Mentorship**
Fostered growth by guiding junior engineers through complex design challenges, enhancing team skill levels.
- Field Leadership**
Led on-site inspections and QA processes, ensuring high-quality deliverables consistent with project timelines.
- Client Engagement**
Built strong client relationships through transparent communication and instilled confidence with clear technical presentations.
- Design Innovation**
Implemented forward-thinking approaches to problem-solving, addressing intricate water treatment concerns effectively.
- Regulatory Adherence**
Ensured compliance with extensive industry regulations, thereby increasing project reliability and safeguarding environmental standards.

SKILLS

- Water Treatment Design
- Process Optimization
- Project Management
- Technical Presentations
- Team Collaboration
- Regulatory Compliance
- Biological Treatment
- Membrane Separation
- Field Surveys

SUMMARY

Dedicated engineer with over five years of hands-on experience in industrial water and wastewater treatment. Experienced in utilizing advanced techniques for effective treatment solutions, streamlining processes to enhance efficiency, and ensuring compliance with environmental regulations. Successfully collaborated with multidisciplinary teams from project inception through implementation, always prioritizing sustainability and quality outcomes. Proven record in mentoring junior staff, managing client expectations, and supporting business development initiatives by preparing comprehensive proposals and delivering compelling presentations. Enthusiastic about improving water quality and driving solutions that matter.

EXPERIENCE

Industrial Water Process Engineer

Water Solutions Inc. 📅 January 2021 - Present 📍 Chicago, IL

Engineer specializing in the design and deployment of water treatment systems aimed at meeting evolving regulatory standards and enhancing operational performance. Supports a diverse range of projects focused on wastewater processes and industrial applications while leading minimal fieldwork efforts.

- Spearheaded design and implementation across multiple water/wastewater projects, guaranteeing regulatory adherence and optimized operations.
- Collaborated seamlessly with cross-disciplinary teams to craft innovative solutions addressing complex water treatment obstacles.
- Executed thorough field inspections and quality assurance measures, contributing directly to successful project deliverables.
- Cultivated knowledge transfer by mentoring junior engineers in design and calculation methodologies, boosting overall team efficiency.
- Played a key role in system commissioning, enhancing plant operations through strategic training of technicians.
- Presented complex technical data in simplified formats during client meetings, fostering informed collaborations and building trust.

Junior Process Engineer

Aqua Solutions Group 📅 June 2016 - December 2020 📍 Chicago, IL

Supported engineering processes for wastewater management, contributing to numerous well-executed projects under senior guidance.

- Contributed to design and optimization of treatment processes, integral to accomplishing key project milestones successfully.
- Conducted hands-on treatability tests, providing insights into system performance for continuous improvement efforts.
- Assisted in crafting design documents and specifications, ensuring clarity and feasibility of project plans across teams.
- Engaged actively in client discussions regarding project advancements, ensuring alignment of technical solutions with client needs.
- Maximized project delivery effectiveness by following rigorous project management protocols in collaboration with senior staff.
- Resourcefully gathered client feedback to shape project iterations, significantly enriching overall project quality.

Disinfection Technologies

Construction Oversight

Crystallization Processes

Chemical Treatments

Client Development

Quality Assurance

LANGUAGES

English Native

Korean Proficient

MY CAREER



● Industrial Water Process Engineer at Water Solutions Inc. (5.4 Years)

● Junior Process Engineer at Aqua Solutions Group (4.5 Years)

LEADERSHIP & AWARDS

- Dean's List, University of Illinois, 2014-2016
- Engineering Excellence Award, Water Solutions Inc., 2022

EDUCATION

Bachelor's Degree in Chemical Engineering

University of Illinois 🎓 GPA: 3.8 📅 2016 📍 Champaign, IL

Coursework: Thermodynamics, Fluid Mechanics, Water Treatment Processes, Environmental Regulations

CERTIFICATIONS

- Certified Professional Engineer (PE) 📅 2021
- Engineering Leadership Certification 📅 2022

TECHNICAL SKILLS

- **Project Management Tools:** Trello, Asana, Microsoft Project
- **Design Software:** AutoCAD, SolidWorks, Revit
- **Analysis Tools:** MATLAB, Python, R
- **Environmental Standards:** EPA Guidelines, ANSI Standards, OSHA Regulations
- **Safety Protocols:** PPE Training, Hazard Communications, Emergency Procedure Plans
- **Inspection Techniques:** Field Surveys, Construction Quality Assurance, Site Assessments
- **Wastewater Technologies:** Anaerobic Digestion, Filtration, Advanced Oxidation Processes
- **Communication Platforms:** Microsoft Teams, Slack, Zoom
- **Technical Documentation:** Specification Writing, Design Drawings, Proposal Creation
- **Client Relationship Management:** Salesforce, HubSpot, Freshsales

PROFESSIONAL AFFILIATIONS

- American Society of Civil Engineers (ASCE)
- Society of Women Engineers (SWE)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST