



## **SENIOR CANDIDATE ENGINEER (Energy Efficiency)**

Rustenburg, North West, South Africa

### **DESCRIPTION**

Ensign is an international energy design company specialising in sophisticated end-to-end energy efficiency programmes for energy-intensive industries. Our clients include global enterprises and our programmes are innovative, intensive and world-leading, and we have a passion for efficiency, collaborative teamwork, economic optimisation and the delivery of significant results that are enduring and profitable for our clients.

Ensign is seeking a dynamic and innovative Senior Candidate Engineer who has a passionate curiosity for solving complex and challenging problems within the Biogas field. If you are passionate about making a difference, highly self-motivated and have a strong work ethic, we look forward to hearing from you.

### **JOB SCOPE:**

#### **Purpose of the role:**

An individual with prior experience in the Biogas/Bio-methane, Anaerobic Digestion, Biomass, Feedstock, Agriculture, Wastewater Treatment or Process/Chemical Engineering sector with a strong technical background will be working closely with the Associate Project Engineer to ensure the success of a biogas pilot plant.

#### **Key Responsibilities:**

To provide support to the Industrial Gas team in the following areas:

- The design, modification, maintenance and optimization of an anaerobic digester plant.
- Perform advanced biogas plant operations related to the biological, chemical and mechanical processes that are required to keep a biogas system functioning 24/7.
- Ensure the biological, chemical and mechanical processes are functioning properly.
- Ability to perform scientific calculations and conversations related to feedstock management for proper biogas production (examples would include organic loading rate, hydraulic retention time and biogas yield rates to mention a few).
- Interpret scientific data, run trends, communicate results and implement changes to operations to ensure successful running of a biogas system.
- Maintain operations logs, data tracking and report writing.
- Assist in scheduling and performing maintenance work including scheduling outside contractors if needed.
- Assist in ordering plant maintenance consumables.
- Follow standard safety procedures to protect yourself, other employees, visiting guests and the surrounding environment.

**ESSENTIAL REQUIREMENTS:**

A Degree in Chemical Engineering

**ADDITIONAL PREFERRED QUALIFICATIONS & EXPERIENCE:**

- Post-graduation experience in wastewater treatment process design and wastewater infrastructure design and/or anaerobic digestion.
- 1+ Years Energy Efficiency or Energy-related experience
- Financial or business qualifications will also be highly valued

**PERSONAL ATTRIBUTES**

- Exceptional problem-solving capabilities
- Clear, concise communication skills
- Innovative
- Impeccable planning, organization and time management
- Team player, who can exercise good judgement under ambiguous or changing conditions
- Willingness to learn new things and assist where they can
- **Must be willing to travel and relocate for business purposes**

**Permanent position with a 6-month probation.**

**CLOSING DATE:**

- Applications will close at 12h00 on 14 February 2020
- Upload a comprehensive CV and cover letter in English with traceable references, together with certified copies of your **qualifications, results and ID.**
- Link: <https://www.indeed.co.za/job/senior-candidate-engineer-6c21dcb7d44c602f>
- If you do not receive communication from us within 30 days of the closing date, please consider your application as being unsuccessful.
- First preference will be given to HDI's (Historically Disadvantaged Individuals) as per Employment Equity Act No 55 of 1998.