

## Terms of Reference

### 1. Introduction

**Post:** Lead Engineer (Green Energy)

**Type:** Contract (1 Year)

Note: The company may decide to extend the contract after 1 year based on performance.

**Department:** Technical Services and Green Energy Department

### 2. Position Overview

The Lead Engineer in Green Energy will be responsible for overseeing the development, implementation, and management of renewable energy projects of Fenaka. This role involves leading engineering teams, ensuring the integration of sustainable practices, and optimizing the performance of green energy systems such as solar, wind, geothermal, and biomass.

### 3. Reporting Relationship and Communication

Lead Engineer will report to Director of the department daily and regular progress meetings will be scheduled to ensure effective communication and collaboration throughout the duration of the contract unless advised otherwise.

### 4. Key Responsibilities

#### **Leadership and Management:**

- Lead and mentor a team of engineers, technicians, and support staff working in green energy projects.
- Oversee all engineering activities related to green energy projects.
- Develop departmental goals, strategies, and performance metrics.

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□ **System Design and Development:**

- Supervise the design and development of renewable energy systems.
- Conduct feasibility studies and site assessments for new and current projects.
- Utilize advanced modeling and simulation software to optimize system design and performance.

□ **Project Management:**

- Manage green energy projects from inception to completion.
- Coordinate with contractors, suppliers, and other stakeholders to ensure timely project completion.
- Monitor project budgets, schedules, and quality control to ensure projects are completed within scope and budget.

□ **Operations and Maintenance:**

- Oversee the operation of renewable energy facilities to ensure they operate efficiently and reliably.
- Develop and implement maintenance schedules to ensure optimal performance and longevity of equipment.
- Diagnose and troubleshoot complex operational issues and implement necessary repairs and improvements.

□ **Regulatory Compliance and Safety:**

- Ensure all activities comply with local, state, and federal regulations.
- Develop and enforce safety protocols to protect workers and the public.
- Prepare and submit regulatory documentation and reports.

**Performance Monitoring and Optimization:**

- Monitor the performance of green energy systems and identify areas for improvement.
- Implement efficiency improvements and system upgrades to enhance output and reduce costs.
- Analyze data from sensors and control systems to optimize operations.

**Environmental Impact and Sustainability:**

- Assess and mitigate the environmental impact of renewable energy projects.
- Promote the use of sustainable practices and renewable energy sources.
- Ensure compliance with environmental regulations and standards.

**Technical Support and Training:**

- Provide technical support and guidance to operators and maintenance staff.
- Organize training programs to enhance the skills and knowledge of personnel.
- Develop and update technical manuals and standard operating procedures.

**Innovation and Research:**

- Stay updated with advancements in green energy technologies.
- Conduct research to develop new methods and technologies for renewable energy generation.
- Implement innovative solutions to improve efficiency, reliability, and sustainability.

## 5. Education and Experience

- A Bachelors' Degree or equivalent professional certification (MNQF level 7) in Electrical Engineering, Mechanical Engineering, Environmental Engineering, or a related field with 10 years of professional work experience in related field with strong

background in the design, operation, and maintenance of green energy systems. Proven leadership experience in an engineering role.

## 6. Skills and Competencies

- **Technical Skills:** Proficiency in engineering design software (such as AutoCAD, SolidWorks), simulation tools, and control systems. Strong understanding of renewable energy technologies and equipment.
- **Analytical Skills:** Strong analytical and problem-solving abilities. Ability to analyze complex data and make informed decisions.
- **Communication Skills:** Excellent verbal and written communication skills for reporting, presentations, and stakeholder interactions.
- **Project Management:** Proven ability to manage multiple projects, coordinate with multidisciplinary teams, and meet project deadlines.
- **Leadership and Management:** Demonstrated leadership abilities and experience managing technical teams.