



JOB TITLE: Electrical Designer - Renewables

Location:

Penrose, Auckland

Date:

May 2024

Reports to:

Renewables Manager

Purpose:

To complete detailed design drawings using AutoCAD or similar to the highest quality and standard.

ROLE SUMMARY:

Having started providing electrotechnology services in 1936, McKay is a historic New Zealand electrical company with a depth of experience in providing end to end electrical solutions for a wide range of industries and sectors.

McKay's Renewables division is on exciting journey to contribute to the decarbonisation of Aotearoa, New Zealand through design and construction of innovative Solar, BESS, and Geothermal Energy projects.

As a skilled Electrical Designer - Renewables you will support our Renewable Energy team in creating high quality detailed design documents and drawings for our projects.

RESPONSIBILITIES:

You'll be responsible for preparing detailed site layouts, electrical schematics, cable entry drawings, trench profiles, and other technical drawings necessary for the development and installation of renewable energy projects, including solar farms and BESS.

It goes without saying that you are a detail-oriented professional with a strong foundation in drafting techniques and a deep understanding of renewable energy or power generation systems.

Within the team you will become the expert in detailed design drawings, setting the standard for how these should be created, and providing consistency across clients and projects.

Key Responsibilities

1. Create detailed technical drawings and plans for renewable energy projects, including site layouts, electrical schematics, and cable entry diagrams.
2. Work closely with engineers and project managers to translate engineering concepts into clear and accurate visual representations.
3. Ensure all drawings and designs meet industry standards and compliance requirements.
4. Utilize computer-aided design (CAD) software to produce designs and drawings.
5. Manage and maintain the documentation of all drawings, including revisions and updates.
6. Assist in the preparation of documentation for construction and installation teams.
7. Participate in project meetings to provide updates and feedback on design issues.
8. Contribute to the continuous improvement of the design process and drafting techniques

QUALIFICATIONS & KNOWLEDGE:

Minimum:

- Diploma or certificate in drafting, engineering technology, or a related field.
- Proven experience as a draftsman, ideally in renewable energy or related industries.
- Proficiency in CAD software, such as AutoCAD, Solid Works, or similar.
- Strong understanding of electrical and mechanical systems as they relate to renewable energy.
- Ability to interpret complex engineering drawings and technical specifications. Excellent attention to detail and precision in creating and reviewing drawings.
- Strong organizational skills with the ability to manage multiple projects simultaneously.
- Effective communication skills, capable of working collaboratively with diverse teams.

Desirable experience:

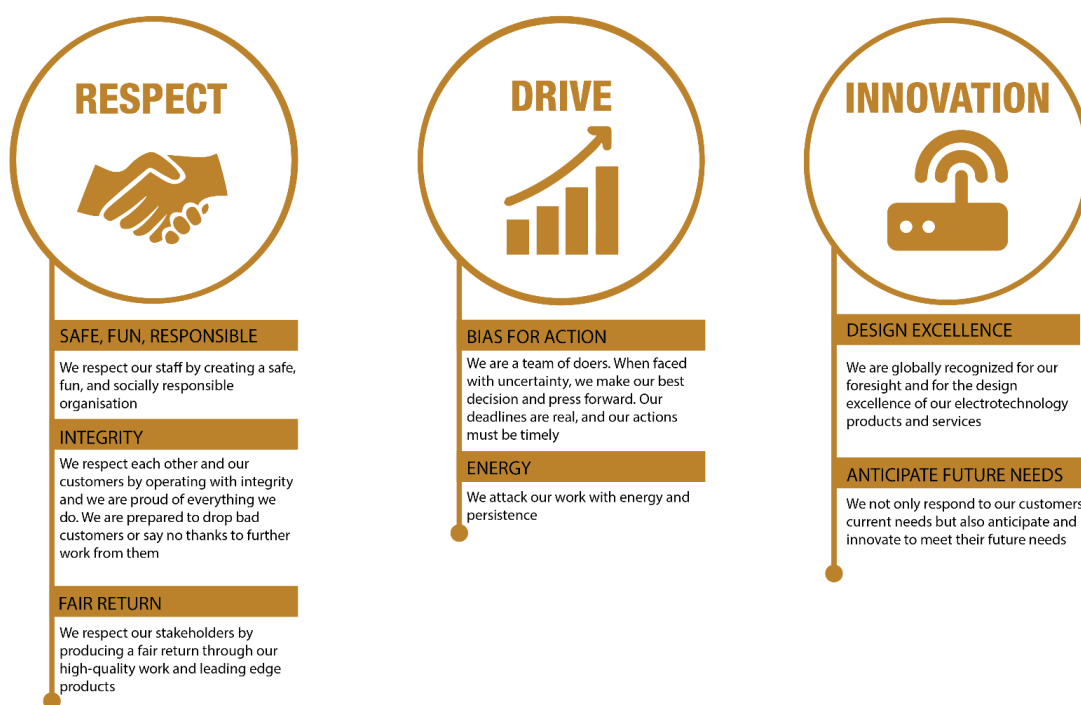
- Depth of knowledge of the application of relevant AS/NZS standards (AS/NZS5033, AS/NZS4777, AS/NZS3000 etc.), and IEC standards relating to electrical installations, photovoltaic systems, BESS etc.
- Applied experience designing Renewable Energy or other Industrial electrical systems.

ROLE PROFILE:

As an Electrical Designer - Renewables at McKay Ltd., you should meet the following:

- A minimum of four years of experience working within a consulting or project focused drafting role in renewable energy, power generation, or a similar industrial setting i.e., oil and gas or wastewater treatment.
- A willingness to keep up to date with industry developments including new technologies and approaches.
- Strong knowledge around software tools such as AutoCAD for drafting
- An open and collaborative approach to work with those in the team around you
- A willingness to mentor and develop those around you.
- A pride in providing high quality engineering deliverables to meet the needs of a client.

McKay GUIDING VALUES:



REVIEWED BY:

DATE:

**Last updated
by:**

Acting Renewables
Manager

Date/Time:

May 24