

## Statement of Accountabilities

<b>Position Title:</b>	Senior Design Engineer – Power Systems Analysis - Substations and Green Grids
<b>Reports To:</b>	Design and Engineering Team Leader
<b>Direct Reports:</b>	Nil
<b>Key Relationships:</b>	<ul style="list-style-type: none"> <li>▪ D&amp;E Team</li> <li>▪ Clients (both internal and external)</li> <li>▪ Project Management Office</li> <li>▪ Regional Business Units</li> <li>▪ External suppliers such as network contacts/industry partners</li> </ul>
<b>Primary Location:</b>	Christchurch
<b>Status:</b>	Permanent Full-Time
<b>Version Date:</b>	May 2023

### Our Organisational Profile

Connetics is a multi-disciplined, multi-regional electrical design, construction, and maintenance business delivering electrical infrastructure assets for customers throughout Aotearoa.

With depots in Wellington, Central Otago, Westport, Paraparaumu and Christchurch our purpose is to **deliver energy solutions for our communities**. We aim to exceed our customers' current and future needs by innovating, designing and delivering electrical projects, proactively harnessing opportunities in the fast-evolving energy landscape.

Connetics is a wholly owned subsidiary of Orion NZ Ltd (a Christchurch City Holdings Limited company) which operates within an Orion Group ecosystem as the electricity distribution services unit.

The Orion Group purpose to **power a cleaner and brighter future with our community** captures the contribution we want to make to the wellbeing and prosperity of our community. We are committed to taking a lead in sustainability and delivering innovative future energy services.

### Position Purpose

The Senior Design Engineer position acts as a subject matter expert while providing guidance, advice and mentoring to a range of engineer levels, driving innovation in the Power Systems Analysis and Substation and Green Grids disciplines. Often collaborating across different specialisations, this position demands innovation from concept design through to construction. This role requires particular strengths in Power Systems Analysis and project management, utilising new technologies to deliver advanced design solutions to internal and external stakeholders. Design and Engineering at Connetics is future forward, incorporating innovative methods and technologies to deliver optimised projects for our customers.

## **Key Accountabilities**

### Technical

- Perform power system studies using PowerFactory, or equivalent software such as PSCAD, PSS/E and other related tools
- Perform grid connection and power system studies including power flow, fault, dynamic, voltage stability, and harmonics.
- Produces industry power system analysis reports
- Undertakes research on innovative design solutions to overcome unique site or client-based requirements
- Demonstrates subject matter expertise internally and externally (peer review, publications, presentations)
- Manages large or complex projects with multiple resources, delivering on time and in budget
- Undertakes business development, estimating and scoping new work

### Health and Safety

- Shows a commitment to and comply with Connetics' health and safety policies, systems and procedures
- Takes reasonably practicable steps to ensure the health and safety of yourself and others
- Ensures projects meet safety regulations and relevant standards, in addition to regularly undertaking Safety in Design Reviews

### Leadership

- Provides instruction, advice, and training to junior colleagues in a supportive and collaborative way
- Actively mentors others to successfully undertake professional development
- Provides growth opportunities in a range of working disciplines
- Adopts and models agile ways of working, demonstrating collaborative and inclusive behaviours

## **Qualifications, Skills and Competencies**

### Essential

- A level 7 electrical engineering qualification or equivalent experience
- Experience in a similar role
- Sound knowledge of Power System Modelling and experience using tools such as PSS/E, PowerFactory, and PSCAD
- Sound knowledge of scripting with experience using Python and VBA
- Possess good analytic and report writing skills
- A strong technical knowledge of relative specifications, standards, and New Zealand best practice
- Evidence of delivering successful projects on time and in budget
- Excellent communication skills, both verbal and written
- A current and valid Driver's Licence and be eligible to work in NZ

Desirable

- Current professional registration with a widely recognized industry body such as Engineering NZ
- Experience within any New Zealand Electricity Distribution Business