



Job/Role Description

Senior Overhead Line (OHL) Engineer

1. Introduction

MPAMOT is a multisector consultancy providing engineering, management, and development services on projects. With over 200 of the best people working on a diverse range of challenges, we're helping our clients deliver sustainable infrastructure and development solutions. We have a collegiate and collaborative culture which values equality and diversity, and we take proactive steps to create an inclusive workplace.

Owing to continued growth and high demand for our services, we are looking for a Senior Overhead Line Engineer to join our energy team in our office in Johannesburg, South Africa.

By joining our team, you will have access to the largest, most challenging and innovative projects worldwide. The work is extremely varied as will be your role.

2. Role Description

The Senior OHL Engineer provides specialist advice, designs, reports, and delivers engineering advice and input across a portfolio of projects. Specifically; you will manage, and complete design work associated with transmission and distribution line design. Engineering work includes route selection, PLS-CADD modelling, structural model in PLS TOWER and PLS POLE, line schedules, stringing tables and charts, design reports, site verification, drawings, specifications and design standards.

The incumbent will coordinate with the wider team for successful completion of the deliverables.

The Senior OHL Engineer should be able to complete complex projects or assignments autonomously and provide technical solutions to problems with little or no precedent.

Some duties entail:

- Perform, review and approve High Voltage OHL designs complying to relevant international standards;
- Ensure designs approved for delivery comply with relevant legislation, standards, policies and procedures;
- Update or create design standards and related documentation to ensure continued compliance to standards and industry best practice;
- Carry out studies in specialist areas such as line and foundation design, tower spotting, sag - tension, plan and profile, conductor selection, structural design of lattice towers, structural design of steel poles and wood pole design;
- Prepare, review and manage specifications, schedule BOQ's, and other design documentation;
- Provide information as required to determine the best approach for the successful completion of the project in complex multi-disciplinary issues involving other groups;
- Investigate and implement innovative design solutions to meet business and project needs;
- Provide competitive design solutions to support the achievement of MM's client objectives;
- Be proficient in the use of engineering software to prepare transmission and distribution lines designs including PLS CADD, PLS Tower, PLS Pole;

- Once the line has been designed, assist with type and sample routine tests. Experience with testing stations globally in witnessing of full-scale tests to prove line design capabilities;
- Deliver engineering projects in accordance with client requirements and in line with company and industry best practice;
- Management of construction activities by contractor, lead project and design review meetings.
- Ability to chair meetings, communicate to project team and produce reports; and
- Provide technical input into proposals.

3. Candidate Specification

The ideal candidate will boast the following credentials:

- BSc or Masters' degree qualification in Civil / Structural Engineering or equivalent with 15 – 20 years relevant experience;
- Experience in an OHL engineering environment including significant scheme and project / design management and proven track record of scheme delivery;
- Working knowledge of appropriate British and International Standards and Codes of Practice relevant to the design of transmission and distribution OHLs;
- Knowledge and understanding of relevant legislation, policies and procedures applicable to the preparation of designs and specifications;
- Knowledge of HSE;
- Able to perform Risk Assessments and develop mitigation strategies;
- Proficient in the use of engineering design software packages such as; PLS-CADD, PLS-Tower, PLS-Pole and AutoCAD and other design software to develop designs;
- Working knowledge of design quality assurance processes to ensure that designs meet quality requirements;
- Working knowledge and demonstrated experience in the requirements and application of Safety design requirements;
- Ability to promote a high standard of professionalism, effective communication and personal integrity within the design team;
- Mentor junior staff;
- Proactive, and proficient in working with clients both internally and externally
- Ability to work in a team environment.
- English proficient with Francophone capability as an advantage.

4. Desirable

- Professional Registration with the Engineering Council of South Africa (ECSA)
- Experience in consultancy environment, and in a client facing role.
- Willingness to travel both locally and globally.

5. Package

To be negotiated: Competitive salary plus benefits

6. Location:

South Africa – Johannesburg