

## POSITION DESCRIPTION

**Job Title:** Structural & Civil Engineer

**Reports to:** Director

**Job Type:** Permanent full-time

**Location:** 27 Twelfth Street, Gawler South, SA

**Reporting to this position:** Nil

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### Business Overview

Harnett Engineering is a proud small business operating in the local community since 2013. Working with many local builders, designers and drafters the majority of the work is residential scaling to small commercial projects.

Harnett Engineering offers a creative approach to structural and civil engineering with a strong focus on delivery and client service in the residential and commercial sectors. Our services include engineering consulting and design of reinforced concrete foundations, structural steel, timber, masonry and concrete, wastewater management systems, site drainage design and retaining wall structures.

Harnett Engineering is a growing business, offering a workplace with flexibility, teamwork and personal growth.

### The Role

In this role, you will work closely with builders and drafters to provide high quality structural and civil documentation. Ensuring compliance to client specifications, company standards as well as other regulatory requirements. We're looking for an enthusiastic person who has a strong work ethic and devotes attention to detail. This role is hands on with all aspects of design, site observations and maintaining client relationships.

### Responsibilities

- Design and draft a range of innovative engineering solutions including footing analysis and design, structural steel, concrete and timber design solutions and soil property analysis
- Prepare engineering drawings and designs using AutoCAD
- Make engineering calculations about pressures, loads and stresses
- Prepare written reports to a high standard and in a timely manner
- Review blueprints, plans and change orders to verify structural integrity of materials and designs, and perform complex calculations and use modelling methods to ensure correct results
- Consider the strength of construction materials and select appropriately
- Provide technical advice on safe designs and construction
- Obtain planning and/or building regulations approval (i.e. Council Approval)
- Arrange, analyse and log site soil investigations
- Analyse configurations of the basic components of a structure
- Provide solutions to engineering problems, and professionally liaise with clients
- Monitor and inspect all work undertaken by contractors to ensure structural soundness

- Create structural models by using computer-aided design software
- Conduct site inspections for residential footings and structural members
- Follow construction safety guidelines
- Manage, coordinate, track and report on engineering projects
- Research existing and new material technology to determine practical applications, strength and durability expectations and cost-benefits information, and prepare material recommendations for current and future projects
- Perform other job-related duties as assigned by management

*The above list is not exhaustive and the role may change to meet the overall objectives of the company.*

### **Required Skills & Experience**

- Bachelor's degree in civil or structural engineering (essential)
- Understanding of Australian standards in relation to structural engineering design and residential projects
- Excellent English written and verbal communication skills
- Decisive with excellent critical thinking skills
- Excellent knowledge of construction methods and regulations
- Hands-on experience with AutoCAD (desirable)
- Proficient in Microsoft Office
- Data-driven mindset with excellent mathematical skills
- Ability to liaise with a range of stakeholders in a professional and productive manner
- Ability to work independently as well as in a team
- Excellent time management and organisational skills, and an ability to work to agreed deadlines
- Attention to detail
- Sound understanding of physics and mathematics
- Analytical thinker with strong problem-solving skills
- Ability to work under pressure and meet tight deadlines
- Excellent communication and IT skills
- Hold a Class C Australian Driver's Licence and own your own vehicle

### **Travel**

Frequent regional travel required for engineering site inspections.

*This job description serves to illustrate the scope and responsibilities of the post and is not intended to be an exhaustive list of duties. You will be expected to perform other job-related tasks requested by management and as necessitated by the development of this role and the development of the business.*