

# 6-month Biomedical Engineering Internship at Southern Implants

## Company Overview

Southern Implants is a South African based medical device manufacturer, operating as a multi-national. Southern Implants specialises in dental implant design and manufacture with a focus on top-end specialists clinicians.

A unique aspect of Southern Implants is that most steps of the product lifecycle are performed in-house, including:

1. Research and development
2. Customer input and feedback
3. Prototyping
4. Testing
5. Regulatory approvals
6. Manufacturing
7. Sales
8. Clinical follow-up

The Company Values of Southern Implants are:

- Integrity
- Team
- Innovation
- Dedication

## Internship Opportunity

Southern Implants is looking to offer internship positions in the Sales Engineering Department. This 6-month internship is intended for newly qualified biomedical or mechanical engineers who are seeking to obtain exposure in the biomedical industry.

As an intern in this program, the benefits of completing this internship include the following:

- Exposure to different roles and opportunities within a multi-national medical device manufacturing company.
- Development of industry applicable skills under the supervision of experienced biomedical/mechanical engineers.
- Networking within the biomedical industry, both locally and internationally with suppliers, regulatory bodies, industry experts and clinicians.

For Southern Implants, we would hope to gain the following from our interns:

- Skills and knowledge transfer to the company on the latest academic teachings and research.
- Innovative ideas and perspectives.
- Expansion of our talent pool.

## Requirements for applicants

- BEng or BSc in Engineering with completed or in the process of completing a Master's in Biomedical Engineering.
- Competent in SolidWorks modelling, simulations, and technical drawings
- Computer literacy (MS-Office)
- Familiarity with a regulatory orientated or high-quality assurance type industry
- Report writing
- Medical Device Design Experience
- Manufacturing Experience
- Computer Programming

## Working Environment within the role

All-rounded individuals are best suited for this position due to the continuously changing nature of providing support, input and solutions to Southern Implants customers (clinicians), technical sales teams and collaborative departments. This role is extremely dynamic and requires individuals to:

- Manage and balance multiple projects simultaneously.
- Project scheduling based on stakeholders' timelines.
- Be available for any critical task that can arise.

Individuals will also be required to report to more than one manager in various departments as well as their peers. This requires a high level of competency in people management and communication skills.

As this role is best suited for individuals who enjoy working on varied, fast-moving projects - individuals who prefer or are more suited to focused, long-term projects with fixed milestones may find this role challenging.

## Remuneration

Successful applicants will be remunerated for the period of the internship based on their experience and qualifications.

## Application Process

Individuals who are interested in applying for this internship are to submit the following to Stuart Blackbeard (Sales Engineering Manager at Southern Implants) – [careers.hq@southernimplants.com](mailto:careers.hq@southernimplants.com)

- CV
- Cover letter with motivation for why they would be a strong candidate for the internship position.

## Assessments and Skills Proficiencies

For this internship position, selected applicants will be assessed on the following to ensure that meet the requirements for this internship position:

1. Aptitude
2. Design
3. Design for manufacture
4. Manufacturing
5. Critical thinking
6. Creativity
7. Problem Solving
8. Presenting

Due to the nature of the position to ensure that medical devices manufactured by Southern Implants are fit for the market, the need to work with multiple stakeholders is critical in all engineering positions. In addition to this, Southern Implants is a world leader in the dental implant industry which is a very competitive environment. Therefore, a major amount of emphasis is placed on individuals' abilities to work in teams and in a team environment for this role, as well as thriving in a competitive environment. Therefore, it highly desirable for individuals to show skills (current and past) of their teamwork abilities and competitiveness. Examples of this include:

1. Clubs, societies and other membership groups with coordination roles
2. Sports teams and sporting achievements
3. Cultural and cultural achievements
4. Hobbies
5. Academic achievements
6. Any other extramural activities

With this position weighted heavily towards critical thinking, creative design, problem solving and speed for execution; potential candidates need to motivate for their strengths in these aspects as well. An all-rounded individual will thrive due to the dynamic nature of the role.

Additional Skills that would be an advantage for this role:

1. Proficient in multiple languages (local and international)
2. South African driver's License

## Job Description

<b><u>Job Title:</u></b>	Design Engineer Internship
<b><u>Division:</u></b>	Engineering
<b><u>Location:</u></b>	Irene, Centurion
<b><u>Position in Company:</u></b>	Reports to Department Manager: Sales Engineering

### 1. **Primary purpose of the job:**

- 1.1 Develop and maintain products through regulated design procedures.
- 1.2 New Product Development.
- 1.3 Sales Engineering Design Projects.

### 2. **Outputs/Key Result Areas:**

- 2.1 Interact with manufacturers and sub-contractors.
- 2.2 Assistance in the design, development, manufacture, implementation and prioritizing of Southern Implants new products.
- 2.3 Create and maintain design history and technical files.
- 2.4 Ensure that internal training regarding product range takes place.
- 2.5 Interact with other departments regarding products and problem solving.
- 2.6 Carry out independent review of certain aspects of development projects.
- 2.7 Manage new product development projects.
- 2.8 Carry out any reasonable request from management that may arise.

### 3. **Other special requirements**

- 3.1 Overtime or working over weekends may occasionally be required.
- 3.2 Travel outside of the immediate geographical area may be required.
- 3.3 At all times the incumbent should contribute to maintaining the uniqueness of Southern Implant's culture and contribute to a healthy and positive work environment for all of its employees.
- 3.4 **Experience**
  - Competent in SolidWorks modelling, simulations, and technical drawings
  - Computer literacy (MS-Office)
  - Familiarity with a regulatory orientated or high-quality assurance type industry
  - Report writing
  - Manufacturing
  - Computer Programming
- 3.5 **Knowledge, Skills and Attributes (Attitudes)**
  - Assertive
  - Organised
  - Ability to work to deadlines