

Electronic Engineer

Do you want to work in the high-tech engineering industry? Do you enjoy optimisation and finding more efficient ways of producing output? Are you passionate about figuring out solutions to technical challenges?

EMSS Antennas is looking for an **Electronic Engineer**. Join our engineering team at our production facility and help ensure our production processes are optimised in such a way that it supports our state-of-the-art electronic and electromagnetic solutions are of a world-class quality and standard. This role will be based at the production facility in Somerset West.

Who we are

EMSS Antennas (<https://www.emssantennas.com>), a subsidiary of the Alphawave group (www.alphawave.co.za), is an innovative engineering company based in Stellenbosch, with its production facility situated in Somerset West.

EMSS Antennas has a world-class team that designs and builds electronic and electromagnetic solutions, including state-of-the-art receivers for the world's most formidable radio telescopes, such as MeerKAT and SKA. Additionally, we are constantly developing our own products. More information can be found here: www.fieldsense.com and www.inrangegolf.com

About the job

As **Electronic Engineer** you will be responsible for driving all technical aspects of the Inrange production environment, including taking responsibility for the fault finding and repair of all Inrange hardware, developing and maintaining test hardware, and implementing continuous improvement initiatives. You will be based at our production facility in Somerset West.

Your contributions as an **Electronic Engineer** will centre around efficiently resolving challenging technical problems and failures in the Inrange production environment. You would identify opportunities for production optimisation and design and implement creative engineering solutions to capitalise on these opportunities. Furthermore, you will make a fundamental contribution by embodying the EMSS Antennas values in your daily processes, systems and work relationships as you deliver impactful solutions for our clients.

Key Responsibilities, Accountabilities and Duties

Our engineering team is on a mission to create and innovate state-of-the-art radio frequency products and solutions to support our client's complex challenges.

As **Electronic Engineer** your responsibilities will include:

- Evaluating and continuously improving the manufacturing processes including those used by subcontractors (i.e. PCB assembly).
- Determining requirements and best practices for tooling and equipment, including requirements for test hardware and software, and the ongoing maintenance thereof.

- Developing effective automated and non-automated systems.
- Resolving issues and delays in production and providing inputs to product development, finding ways to reduce costs and maximise quality, improve producibility and increase product reliability.
- Training staff in new and existing processes, collaborating with other engineers, contractors and suppliers.
- Preserving our reputation by ensuring the quality of our products and services.
- Yield monitoring and improving sensor and sensor sub-assemblies.
- Reworking and repairing of all Inrange hardware including, fault-finding, testing and rework (THT & SMD) for both production and delivered hardware, as well as failure analysis and reporting.
- Continuously collaborating with all stakeholders, including management, finance, admin and technical staff, to analyse and improve the overall customer service.

Qualification And Experience Required

In order to do your best work and support EMSS in achieving its high-quality standard output, the minimum educational requirement for the role is:

- ✓ B.Eng (Electrical and Electronic Engineering) – including calculus, electronic design, technical communication and technical drawings/graphic communication, as subjects.

Two years' experience in an electronic engineering environment with particular focus on fault finding and repair of RF electronic circuits would be advantageous.

Specific experience that supports the effective execution of this role:

- Experience working in an environment where high-value/low-volume items are manufactured (Desirable)
- Experience working within an MRP/ERP environment (Desirable)
- 2 years proven experience with RF circuit fault finding (Desirable)
- Experience working within an ISO 9001 certified production facility (Desirable)

Knowledge and Skills Required

Proven knowledge of the following would be advantageous:

- Detailed knowledge and in-depth understanding of active RF circuits (Desirable)
- Programming and test automation experience would be an advantage (Desirable)
- Knowledge of and experience working with Radio Frequency test equipment such as network and spectrum analysers, Vector Network Analyser, power meters, etc. (Desirable)
- Knowledge of and experience working with Enterprise/Materials Resource Planning (Desirable)

The key **skills** required to be proficient in this role are as follows

- Performing PCBA rework (THL & Surface Mount Devices) (Important)
- Proficient computer skills, including Microsoft Office Suite (Word, PowerPoint, Outlook, and Excel) (Critical)
- Professional communication skills (Critical)

Who You Are

At EMSS Antennas we pride ourselves on our excellence, integrity and our human-centric culture. The ideal candidate will value the abovementioned and hold the following characteristics, key to the role:

- A well-balanced, high-achieving individual, with a demonstrated track record
- A general attitude of serving others to achieve a common goal, whilst maintaining principles and values
- Eager to take ownership and accountability for their value contribution

- The ability to make decisions and initiate timely actions
- The ability to apply technical expertise to real world challenges
- Exceptional attention to detail and strong analytical skills
- Goal-driven and able to work and solve problems independently
- Demonstrated skills to engage and work effectively within a team context
- Excellent communication and interpersonal skills with employees at all levels
- Flexible enough for a small and medium-sized enterprise
- Capable of working in a highly technical environment

What We Offer

- An opportunity that allows for creativity in finding ways to optimise the production facility, whilst driving efficiency and finding fulfilment in technical problem solving.
- A key role in a steadily growing company
- Competitive compensation
- 25 paid leave days per year
- The opportunity to be part of a vibrant, knowledgeable and innovative team
- A personal development plan with a structured path to develop you professionally and personally
- Personal & Professional development budget | we pay for the books you read
- Daily lunches and regular fun team activities
- All the necessary tools and equipment you need to provide optimal output

Apply for the job

Are you excited to become our new **Electronic Engineer**? Do you have what it takes to be part of a world-class engineering support team?

Then we would love to hear from you!

Please submit the following documentation and send your application to Carol Stuart at opportunities@emss.co.za:

- ✓ Your **resume** and **cover letter** detailing your qualifications and how you can contribute to our team's success
- ✓ A copy of your most recent **Academic Results** and Applicable **Certificates**
- ✓ A **certified** copy of your **Identity Document**

Consideration of applicants will commence **04 March 2025** and we will continue to advertise until the position has been successfully filled. We would like to hire for this role as soon as we find the right-fit candidate.

If you think you have what it takes, but don't necessarily meet 100% of all the criteria, please still apply. We would like to consider you and see if you could be a great fit.

Any questions can also be sent to Carol Stuart at opportunities@emss.co.za.

EMSS Antennas is an equal-opportunity employer. We celebrate diversity and are committed to creating an inclusive environment for all employees. Visit us at: <https://www.emssantennas.com/>