



**We believe it's our people that makes us great**

## Signal Processing Engineer

### The Company

**At Minelab we change people's fortunes and make the world's BEST metal detectors.**

Minelab Electronics is the global market leader in the design of metal detecting technologies for gold, treasure, humanitarian demining and military applications. A dynamic, stimulating and supportive work environment with high calibre people underpins a plethora of interesting projects and cutting-edge technological development. As part of the Codan Group, Minelab is headquartered in Adelaide, offering a modern campus with excellent facilities.

### The Role

We are looking for a bright **Signal Processing Engineer** who is keen to learn how to design and validate sophisticated algorithms for Minelab's metal detector products. Your talent and dedication will help us create detectors that find gold nuggets deeper than ever in the remote areas of Australia or Africa; it will help hobbyists more easily find ancient coins and relics; and it will save lives by improving the ability to detect and identify buried landmines (<https://www.youtube.com/watch?v=E3Qfi9gztI8>).

You will have skills and experience across the following:

- Degree in electronic engineering, physics or similar.
- An advanced degree in electronic engineering, physics or similar is highly desirable.
- Ability to design, implement and test algorithms for a real-time environment.
- Familiarity with numerical software packages (e.g. Python, Matlab, Octave).
- Familiarity with at least one high-level language (such as C/C++).
- Experience in one or more of the following areas: digital filters (FIR, IIR, Kalman, adaptive), signal detection, statistical classification
- Ability to devise and carry out relevant experiments and analyse resulting data

You must have the ability to prioritise competing demands, be self-reliant, and able to work well in a team.



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Please address applications, including a cover letter and CV, to Melissa Svilicic, Human Resources Business Partner at [careers@minelab.com.au](mailto:careers@minelab.com.au). Salary package will be commensurate to the successful candidate's experience.