Principle/Senior SDR & DSP Engineer

MD1 Technology is an ambitious small company based in Cheltenham. MD1 is a technology company involved in the Electronic Warfare and Electronic Countermeasures industry. We specialise in radio jamming technology and develop our own electronics, software and firmware combined with detailed research. We help those who serve to protect us. The company does three very specific things:

- **ECM Waveforms** - MD1 designs, tests and deploys ECM (jamming) waveforms used in-service equipment by real world operators
- **Novel Research** - MD1 is at the forefront of developing novel and new CEMA (Cyber and Electromagnetic Activities) techniques
- **Product** - MD1 has its own niche life-saving products that we develop entirely in-house for the export market

As a company we have a nice culture and as a team we are hard-working, passionate, don't take ourselves too seriously, and are experts in our field.

The Role - Senior SDR and DSP Engineer

We are looking for a talented and motivated engineer to join our team and work on our highly novel research. We are looking for someone who is skilful in writing efficient code, particularly in C++, who understands the merit of unit testing and is able to join others in architecting a system. Ideally we are looking for someone who has a good understanding of DSP and is able to prototype and develop algorithms at a high level using tools such as Octave and then able to transfer the prototype to a working application for an SDR. You do not need specific experience in Electronic Warfare. If you dream of presenting at DefCon and enjoy playing with radios this is just the place for you! The technologies we include in our workflow are:

- Software Defined Radio (HackRF, Ettus, GNU Radio)
- Digital Signal Processing
- Algorithm development
- OpenCPI
- C++
- Octave / Matlab
- Python / Bash Scripting
- Linux

FPGA experience is highly desirable, but not essential. We require the successful candidate to develop using the OpenCPI framework. No prior experience is required as full training will be given to the successful candidate. OpenCPI is a software framework for developing applications and is increasingly being mandated by major defence EW and CEMA programmes.

It goes without saying that you want to be remunerated well but we also recognise there are other considerations in life and we're happy to discuss what your own priorities are. Everyone is different, not everyone needs childcare vouchers or a gym membership and we are not prescriptive so let us know what works for you and we can work out something suitable.

How To Apply

Please send your CV and a covering letter explaining why you think this role would be great for you to info@md1tech.co.uk.

Please note that due to the nature of our work you will need to be a British Citizen and potentially be required to obtain Government security clearance for this role.