

## Senior Compiler Engineer

Cognovo is a company formed with the vision of changing the cellular and wireless industries through the creation of a new Software Defined Modem Platform targeted at mobile handsets. This flexible platform is built around Cognovo's new Vector Signal Processing engine which, together with its associated vectorising compiler and suite of software tools, enable our licensed customers to create high performance multimode chipset solutions for LTE and beyond.

Our development activities in Leuven are focused upon the creation of the vector signal processor and its associated compiler. We are currently expanding our development teams and are seeking to recruit a number of experienced engineers into our Leuven lab.

### Responsibility

The Senior Compiler Engineer operates in a team developing and maintaining the Cognovo Software Development Kit (SDK). This SDK consists of a C/C++ compiler targeting VLIW architectures, schedulers, VLIW datapath creation tool, linker, instruction set simulator, debugger, profiler, and IDE.

- Taking an active role in compiler development: improvement of existing compiler optimizations and introduction of new optimizations
- Taking an active role in compiler maintenance: analysing and resolving any problems found

### Qualifications

- Masters Degree in Electrical Engineering or Computer Science.

### Work Experience

- This role is suitable for someone with minimum 4 years of relevant professional experience.
- Experience in developing heuristic algorithms (e.g scheduling techniques)
- Proven experience in object oriented software design, coding and validation

### Skills and Knowledge

#### Essential

- Excellent knowledge of the ANSI-C and C++ programming language.
- Excellent knowledge of compiler technologies.
- Good written and oral communications skills in English.
- Understanding of DSP processor architectures

## Highly Desirable

- Experience in targeting VLIW architectures
- Familiarity with EDA-tool development in general
- Ability to present progress and development requirements to senior management and external audiences
- Interest in/experience with mobile communication applications