



The **WinProp** software tool includes wave propagation models for different scenarios (indoor, urban, rural, tunnel, etc) and network planning simulators for various air interfaces (GSM, 3G, LTE, WiFi, IoT, etc)

**Position**            **C/C++ Developer**

**Electromagnetic Wave Propagation & Radio Network Planning Software**

**Company**            Altair Development S.A. (Pty) Ltd

**Situated**            Techno Park, Stellenbosch, South Africa

**Website**            <https://altairhyperworks.com/product/FEKO/WinProp-Propagation-Modeling>

**Advertising**        March 2018

**Commence**        ASAP

#### **ROLE**

- ◆ Design propagation modeling and radio network planning algorithms
- ◆ Implementing above in C/C++ software code to
  - create new features
  - maintain and extend the existing product
- ◆ Work closely with Product Management and Quality Assurance to bring next generation wave propagation and radio network planning tools to market on schedule

#### **REQUIRED QUALIFICATIONS & SKILLS**

- ◆ Degree in Electrical Engineering/Information Technology or similar
- ◆ Knowledge of RF engineering, especially in wave propagation, wireless technology and radio network planning
- ◆ Understanding the fundamentals of LTE, 3G, GSM, etc
- ◆ 2-3 years expertise in C/C++ software development
- ◆ Experience with Microsoft Visual Studio and software development for Microsoft Windows

#### **ATTRIBUTES**

- ◆ Proven track record of timeous delivery of high quality software projects
- ◆ Like to design and build high performance software modules, without a lot of guidance
- ◆ Enjoy programming and solving physical and mathematical problems
- ◆ Analytical, methodical, thorough and pragmatic
- ◆ Team oriented with excellent open-communication skills
- ◆ Appreciation of people's diversity and their individual talents
- ◆ Desire for empowerment through creative collaboration across international networks and teams
- ◆ Integrity

#### **SALARY**

Altair pays competitive, market related salaries

## ORGANISATIONAL INFORMATION



Altair Development S.A. (Pty) Ltd, based in Stellenbosch, currently employs 38 people, the majority of whom are technical engineers and software developers working predominantly on the electromagnetic simulation and visualisation package FEKO which is used extensively in the automotive and aeronautical industries. WinProp is currently being integrated into FEKO.

Altair is focused on the development and broad application of simulation technology to synthesize and optimize designs, processes and decisions for improved business performance. Privately held with more than 2000 employees, Altair is headquartered in Troy, Michigan, USA and operates more than 69 offices throughout 24 countries. Today, Altair serves more than 5000 corporate clients across broad industry segments.

### ADDENDUM TO JOB SPECIFICATION OF ALTAIR DEVELOPMENT S.A. (PTY) LTD

#### TO ALL APPLICANTS

Submissions, **inclusive of Curriculum Vitae, Matric and Tertiary Results** (where applicable) and enquiries should be addressed directly to Fiona Nell who will track applicants & handle all application communication

- fiona@altair.co.za
- 021 8311500 (T)
- 021 8801936 (F)
- 32 Techno Avenue, Techno Park, Stellenbosch, 7600
- PostNet Suite 444, Private Bag x5061, Stellenbosch, 7599

No employment contract will come into effect until a written offer has been made by Altair Development S.A. to, and accepted in writing, by a candidate.

Once a vacancy has been filled, all parties will be advised accordingly, and no further CVs will be accepted.

#### FOR APPLICANTS NOT APPLYING THROUGH AN EMPLOYMENT AGENCY

Please advise where/how/from whom you learnt of the vacancy.

#### IN RESPECT OF EMPLOYMENT AGENCIES

Should Altair Development S.A. appoint an applicant put forward through an agency, the company will enter into negotiations regarding agency fees with the agency which **first** submitted the CV. Any agreement reached between Altair Development S.A. and the agency, on submitted CVs, will be relevant to this **specific vacancy only**.

The above statement will **only** apply if Altair Development S.A. has advertised a position and requested (in writing) an agency to submit CVs.

Only candidates who have been interviewed and referenced by the agency for this specific vacancy will be considered.