

Radar Systems Engineer

TTI Tactical Technologies Inc., located in Ottawa, Canada, supplies custom electronic warfare analysis software and services and is a wholly owned subsidiary of Leonardo.

TTI's Tactical Engagement Simulation Software (TESS) is a family of dynamic, closed-loop missile engagement software simulators written in MATLAB/Simulink that model interactions between radar-guided and infrared-guided weapon systems, electronic countermeasures and target aircraft, ship and land platforms.

There is an immediate opportunity for a junior to intermediate **Radar Systems Engineer** to participate in the ongoing development of TESS, including definition, design, testing, deployment, customer support and maintenance. The candidate should have at least 2 years of relevant industry experience.

Education:

Bachelor's degree from an accredited university in an appropriate engineering field such as electrical engineering or engineering physics with courses in antenna and radar systems theory.

Security Clearance:

It is a condition of employment that the successful candidate receives a Secret level security clearance. To obtain such a clearance, the candidate **must**:

- Be a Canadian citizen or permanent resident of Canada.
- Have lived in Canada for at least 10 years.
- Not have a criminal record.

Responsibilities:

The successful candidate will:

- Become a subject matter expert in Radar Electronic Warfare.
- Develop functions and algorithms to enhance the performance and fidelity of the various models within the TESS simulators.
- Research military radar, weapon and countermeasure systems and develop input data sets that will configure the corresponding TESS models to match those real-world systems.
- Plan and execute comprehensive test procedures to verify the performance of radar system models within TESS.
- Provide radar analysis services to TTI's defence-related customers.
- Test equations and algorithms written in MATLAB, Simulink, and C/C++.



- Create and maintain documentation for in house and end-user applications.

Knowledge/Experience:

The following are considered essential:

- Radar systems design, analysis and signal processing – minimum 2 years
- Knowledge of radar concepts and antenna theory
- Experience with the Simulink programming environment

Any of the following will be considered an asset:

- Master's or PhD degree in a related field of study
- Retired member of the Canadian Armed Forces
- Electronic countermeasure design and analysis
- Knowledge and experience related to any of the following:
 - Radar and IR guided weapon systems
 - Electronic warfare and electronic countermeasures
 - Missile subsystems (propulsion, aerodynamics, autopilot, guidance)
 - Cyber warfare
 - Machine learning
 - Control theory
 - Electromagnetic wave propagation
- Experience with writing Simulink C/C++ S-functions
- Knowledge of Verification and Validation (V&V) concepts
- Practical experience with standard software test and evaluation tools

To Apply:

Please submit a letter of application and résumé to:

careers@tti-ecm.com

Tactical Technologies Inc. is an equal opportunity employer. Special needs of candidates with disabilities will be accommodated.

For more information, please visit www.tti-ecm.com