

Vacancy Name: IRC28137 and IRC28120  
Job Title : Electro-optics Hardware Engineer  
Organization Name: Transport Solutions R&D  
Scope of Responsibilities

- Support the electro-optics need of current and next generation of high speed transmission systems

#### Specific Responsibilities

- Characterize electro-optic components used for high data rate communication systems
- Specify optical components for optical modems
- Interface/ with component suppliers in the design/fab/characterization/reliability development phase of cooperative device program

#### Candidate Profile

- Strong knowledge of electro-optics devices and optical components
- Device physics knowledge in III-V semiconductor and/or silicon photonics
- Hands-on lab experience using optical/RF instruments
- Strong interpersonal skills

#### Desired Characteristics

- Device modeling knowledge
- Familiar with semiconductor fabrication processes
- Matlab programming knowledge
- Experience in instrumentation control, data collection and statistical analysis
- Optical system communication knowledge an asset
- Reliability physics knowledge
- Packaging experience would be an asset
- Familiar with RF hardware

#### Education / Experience

Post-graduate degree in Physics, Engineering Physics or Electrical Engineering