

## **We are Bombardier**

### **Get on board, we can drive you further in your career**

Bombardier Transportation is the number one provider of rail solutions in the world. Our business holds the number one global market position in eight of the ten markets we service. Our product portfolio includes a full range of passenger rail vehicles and we manufacture locomotives, bogies, propulsion and rail control solutions. We design, build and service some of the most intelligent and beautiful rail solutions in the world, our products are safe, healthy for people and help preserve the world's natural environment. For further information on Bombardier please visit our website.

We are looking for **Principle Safety Engineers** for our **Pittsburgh (PA)** facility

### **Your Role**

Carry out broad or specialized Safety and human factors engineering analyses for railway signaling Communication Based Train Control (CBTC) systems. Responsibilities shall include creating hazard logs and safety cases for complex systems throughout the product life cycles. This candidate may also be asked to provide technical expertise in support of other departments and less experienced personnel or participate in some mentoring programs.

### **Your Challenges**

- Create different system and validation safety plans for complex CBTC signaling systems and subsystems considering the logical system's structure, factory and field testing and commissioning operating conditions as well as product life cycles and project application processes;
- Create and develop hazard logs, safety cases based on identified and established safety targets which must be met throughout the system design and implementation phases. This includes providing constructive, innovative and compelling safety arguments;
- Develop, assess and authorize of derived system safety requirements and requirements control/tracking;
- Create and authorize PHAs, FTAs and FMECA and other event tree analysis using modern and conventional safety techniques;
- Contribute and work closely with engineering disciplines to develop alternative solutions to existing problems. Performs or assign detail work necessary to determine alternatives and options available to achieve best solution;
- Working knowledge of one or more regulatory regimes and main international standards used in railway signaling applications such as Euro-Norm (CENELEC) and IEEE;

- Knowledge of industry standards tools and techniques and critical appreciations of their strengths and weaknesses;
- Maintains awareness of modern technology in engineering disciplines by membership in technical societies, participation in RAMS related courses and seminars, including outside study.

### **Your Experience and Qualifications**

- Bachelor's Degree or equivalent in Electrical/Electronic Engineering, or Computer Science is required; Master's degree is preferred;
- 10 to 15 years of experience working with related technology in a respected industrial firm;
- Familiar with international standards especially those related to Signaling System design and verification including IEEE and CENELEC;
- Sound appreciation of underlying Safety engineering and Safety management in order to produce reliable and effective analyses for both software and hardware designs used in safety critical subsystems;
- Excellent communication skills in English (written and spoken).

You have a strong concern for quality and accuracy and excellent communication skills? You are well known for your analytical thinking skills? Do you recognize yourself in this description? If so, this position could be the beginning of your progressive career with us. Apply now and join Bombardier's worldwide team!

### **Why Work for Us?**

Everywhere we operate, we reward effort and initiative. You are encouraged to ask questions and empowered to make decisions. As an equal opportunity employer, we strive to create a stimulating and open workplace which fosters teamwork, fairness, respect and diversity.

### **We are helping create a better world.**

ECO4 - the formula for energy-saving performance. By making a difference today, we are helping create a better world for future generations. Having pioneered the philosophy of "The Climate is Right for Trains", we demonstrate this rationale by offering vehicles with practically zero emissions that are almost fully recyclable.

*Bombardier Transportation is an Equal Opportunity Employer Dedicated to Affirmative Action and Workforce Diversity.*