



POSITION: Senior Hardware Designer
REPORTS TO: Product Development and Engineering Manager
LOCATION: Ottawa, Ontario

Summary:

Established in 1982 and now a business unit within Stanley Black & Decker, Inc., Instantel is the global market leader in the design and production of vibration monitoring instrumentation. Our products are used in over 120 countries. Applications include civil engineering, construction, environmental, mining, mining exploration, quarry, underwater, structural health, human annoyance, military and noise.

Instantel is hiring a **Senior Hardware Designer** to join our growing product development and engineering team! In addition to hardware engineering tasks, the ideal candidate will possess the interpersonal skills and technical ability to lead the sustainment of existing products and development of new hardware products.

Responsibilities:

- Lead key hardware development activities assisting in the planning, organizing, scheduling of current and new projects.
- Collaborate with firmware designers, software designers, technical specialists, and business leaders within the company to design, develop, and test robust, efficient, high-capability hardware for instrumentation and data management and communication products that meet or exceed customer expectations.
- Assist with establishing and executing project development plans through accurate estimates of capabilities, risks, and effort.
- Assist in resolving escalated customer issues through root cause analysis and design updates.
- Collaborate with Engineering and Manufacturing on New Product Introduction (NPI).

Qualifications:

- A university degree in Electrical Engineering or equivalent.
- A minimum of 8 years of experience in designing and developing substantial hardware products at the board, box, and system levels, with specific experience in several of:

- Power systems for low-power battery-based devices, including architecture, efficiency modeling, and safety consideration.
- Low-power mixed-signal design.
- Analysis, design, and modeling of signal processing systems from transducer to DSP elements.
- Wireless technology integration and certification (GNSS, Bluetooth/BLE, WLAN, Cellular, other IoT-oriented wireless technologies).
- Cabled system interfaces such as Ethernet (including PoE, EEE, NTP, and PTP), RS-485, and USB (including 3.x and OTG).
- A rigorous and methodical approach to design, analysis, and testing.
- The skills to document work thoroughly yet concisely, selecting and using suitable media for the purpose.
- The skills to communicate effectively with others, both as sender and receiver, and to build positive and productive working relationships, including using telepresence media.
- The judgment and integrity to provide reasonably accurate estimates and set achievable deadlines and performance objectives, and to report frankly on progress and setbacks.
- A willingness to adapt to evolving needs and means, maintaining passion for delivering high-quality work on time.

Stanley Black & Decker believes in giving applicants an equal opportunity to succeed on their own merit. We strive to hire employees that reflect and support the diverse perspectives, experiences and needs of employees and our communities. We remain committed to upholding the values of equity, diversity, and inclusion in our work environments. We know that diversity underpins excellence and that we all share responsibility for creating an equitable, diverse and inclusive organization. Therefore, in pursuit of our values, we seek employees who will work respectfully and constructively with differences across the organizational hierarchy in actualizing SBD's priorities, goals and principles of equity and inclusivity. If accommodation is required at any point in the recruitment process, please contact a member of our Recruitment Team. Please note that as part of our recruitment process, candidates in the final stages will be required to complete a background check which may include criminal background, credit and driver's abstract check.