Robotics Expert

Centre de robotique et de vision industrielles Inc. – CRVI
205 rue Monseigneur-Bourget, Lévis, QC

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CRVI is recruiting for a **robotics expert** to develop industrial robotics applications in collaboration with our management and experts, client technical staff, and technology partners.

Industrial robotics is increasingly leveraging the latest advances in artificial intelligence (AI) and the Internet of things (IoT) to train robots to operate in unstructured environments and perform more complex tasks requiring greater flexibility. CRVI is therefore investing heavily in state-of-the-art equipment, including next-generation robots, smart sensors and actuators, and a powerful supercomputer—more than 1.5 million pieces of equipment. CRVI uses its equipment (i) to help companies develop and implement new automated robotic production solutions and (ii) to conduct its new research program (2021–2026) in advanced robotics.

The incumbent will support CRVI in its current activities and participate in the development of its new research program.

Primary duties:

Reporting to senior management, the robotics expert will plan and control all aspects of robotics projects. Specifically, they will have the following duties:

- Synthesize needs, design solutions, and help put together project proposal
- Coordinate work with other team members to achieve objectives
- Create software prototypes and design the test phases on real systems
- Write documents and reports (in French and English)
- Visit clients to perform diagnostics and write technical reports

Skills and requirements:

We are looking for someone with strong people skills, good analysis and synthesis skills, and experience in prototype and finished product development in the field of robotics. Specifically, the applicant must have:

- A bachelor's degree in robotics engineering or automated production engineering, a master's degree in robotics, or another relevant degree

- Experience and/or expertise in one or more of the following specialties:
    - Robots (e.g., Fanuc, ABB, Kuka, UR) and offline programming software
    - Python and C++ programming
    - Process robotization and robot perception, navigation, manipulation, simulation, and trajectory generation
    - Linux and ROS environment
    - Agile/Scrum methodology

- Experience and/or knowledge in one or more of the following areas **(assets)**:
    - Industrial networking (Ethernet/IP, EtherCAT, Profibus), intermachine communication, and connected objects

- o PLC programming for automated systems, including SCADA, FactoryTalk View, Wonderware operator interfaces
- o Mobile robotics
- o Industrial robot risk analysis (based on ISO and CAN/CSA standards)
- o Deep learning with frameworks such as TensorFlow or PyTorch
- o Real-time systems

Working conditions:

- Wide variety of challenging projects
- Occasional travel
- Competitive salary and benefits
- Group insurance and retirement savings plan
- Flexible working hours (37.5 hours) and possibility of telecommuting
- Gym, pool, and weight room on site
- Free parking and coffee
- Great location for families with cultural, sports, and social activities

About CRVI:

CRVI is a college technology transfer center affiliated with Cégep de Lévis. The center has been an integral part of Quebec's innovation system since 1984. We help companies looking to leverage innovation and be more productive and competitive by offering our expertise in applied research, technology transfer, and customized support in the fields of industrial robotics, computer vision, and artificial intelligence. CRVI is a key player in Quebec's efforts to implement advanced technologies and truly make the jump to Industry 4.0. CRVI is backed by a multidisciplinary team of experts and state-of-the-art research facilities complete with industrial equipment and cutting-edge laboratories. As a firm believer in the collaborative approach, CRVI is a member of the Synchronex network, QuébecInnov, and many other sector-based associations, thereby optimizing value and innovation potential for clients. CRVI cares about its employees and is committed to developing their skills.

Are you interested in this position, but lack the required skills?

Are you eager and able to learn and adapt to new technologies?

Send us your application anyway.