



offre d'emploi

Robotics Applications Engineer
Entrepreneurship and Innovation Department – CCNB-INNOV Network
Internal and External Competition # 19-6775-019
Fixed-term position for a period of 5 years, renewable
Collège communautaire du Nouveau-Brunswick

The CCNB-INNOV Network of the Collège communautaire du Nouveau-Brunswick (CCNB) consists of inter-related centers of expertise located in Bathurst (Advanced Manufacturing), Caraquet (Advanced Materials) and Grand Falls (Agriculture-Bioprocessing-Beverages-Environment), whose thirty employees are assigned full-time to meet provincial and regional needs for research and industrial services. The Bathurst Advanced Manufacturing Division is looking for a dynamic person to take on the position of Robotics Applications Engineer and share our mission to promote innovative technical solutions for businesses in New Brunswick and Atlantic Canada.

JOB DESCRIPTION: The successful candidate for this position will report to the Smart Solutions Team Leader - Automation and Robotics. The Robotics Applications Engineer will work with experts from different disciplines to develop and explore new and innovative technologies while supporting existing associated systems such as vision, manipulation, localization, navigation and mapping. The holder of this position will develop expertise in the integration of robotic systems. The extent of this knowledge will include, but not be limited to; design, programming, simulation, testing and start-up assistance for automation, control, electrical and instrumentation systems. The successful candidate will have strong writing, communication and leadership skills to work in an increasingly entrepreneurial, ever-changing and fast-moving industrial research and services environment. It will need to be self-reliant, productive and willing to meet the challenges of designing and implementing research projects with industry partners, developing proposals to various funders and building good relationships with companies, industry organizations, centers and networks specialized in the field. The chosen candidate will be required to travel occasionally in the province or across the country and may work irregular hours. Knowledge of French and English for technical purposes, both orally and in writing, is essential.

RESPONSIBILITIES:

- Design, develop and implement integrated hardware and software systems, based on customer needs, in accordance with standard engineering practices;
- Work directly with the client and provide full technical assistance (onsite and remotely);
- Monitor system performance and analyze workflow to optimize automated systems;
- Write and maintain technical documentation for developed systems including, but not limited to: control and safety procedures, work instructions, training materials, electrical and mechanical drawings, as well as any other documents deemed necessary;
- Collaborate with other experts to build prototypes and proofs-of-concept;
- Work with internal and external suppliers to improve production efficiency, reduce process variability and ensure adherence to quality standards and approved methods, exercising discretion and neutral judgment in assessing observed behaviors;
- Work with business development officers as needed to prepare quotes.

REQUIREMENTS: The individual must have a Bachelor of Applied Science degree in Electrical Engineering, Computer Science or a related field. A Master's degree and / or research experience is an asset.

- Mastery of computer programming and systems using C / C ++, Python, Matlab or functional programming;
- Two (2) years of experience in the field of robotic systems, including kinematics, course planning and research (thesis work accepted, Artificial Intelligence (AI) and/or Machine Learning (ML) course projects is an asset);
- Two (2) years of relevant experience in industrial automation, including programming and troubleshooting of Programmable Logic Controllers (PLCs), Human Machine Interfaces (HMI), and SCADA programming (certification is an asset);
- Experience with the Canadian Electrical Code and safety regulations, such as arc flash protection and electrical maintenance programs;
- It will have the ability to certify technical specifications in New Brunswick and must be a member in good standing of, or be eligible for, the provincial professional association or that of another province.

An equivalence of the essential training and experience requirements of this position could be considered. Applicants must clearly state this in the curriculum vitae presentation and if they are invited for an interview, they must then support this equivalence by presenting their achievements to the selection committee.

CONDITIONS OF EMPLOYMENT:

Place of work: Bathurst, New Brunswick

Conditions: Five-year fixed-term position - **with potential for renewal**

Salary: Based on compensation for management and non-union employees

Start of employment: As soon as possible

To be considered: In your resume, clearly state your skills, experience and language ability. For each job, indicate the date (month-year) of start and end. Include proof of diplomas. Be able to provide a criminal record and proof of diplomas. Applications whose CV does not meet the criteria mentioned could be rejected. The employer reserves the right to increase the requirements for pre-selection purposes.

The CCNB offers equal opportunity to employment for all.

Send your application specifying the competition number to the following address:

Human Resources and Labor Relations Branch - Head Office

Collège communautaire du Nouveau-Brunswick

P.O. Box 700, Bathurst, NB E2A 3Z6

Fax: 506-547-2741

E-mail: CCNB-RH@ccnb.ca

The CCNB is a collegial society open to the world and centered on its student population. It contributes to the vitality of individuals and the Acadian and Francophone society by offering, on its five campuses, 84 technical and vocational training programs that respond to the job market. As an entrepreneurial and innovative college society, the CCNB adapts to socio-economic realities, supports applied research activities and encourages innovation.