# Job Posting:167031 - Position: S25 Software Developer - Simulation Internship 167031B

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| **Co-op Work Term Posted:** | 2025 - Summer |
| **App Deadline** | 02/26/2025 09:00 AM |
| **Application Method:** | Through Employer Website |
| **Posting Goes Live:** | 02/12/2025 03:06 PM |
| **Job Posting Status:** | Expired |

## ORGANIZATION INFORMATION

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| **Organization** | General Motors of Canada Ltd. |
| **Country** | Canada |

## JOB POSTING INFORMATION

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| **Placement Term** | 2025 - Summer |
| **<b> Job Title <b>** | S25 Software Developer - Simulation Internship 167031B |
| **Position Type** | Co-op Position |
| **Job Location** | Markham, ON |
| **Country** | Canada |
| **Duration** | 12 or 16 months |
| **Work Mode** | Hybrid |
| **Salary Currency** | CAD |
| **Salary** | Salary Not Available, 40 Major List |

**Job Description**

**Work Arrangement**

Hybrid: - Position does not require an employee to be on-site full-time but the general expectation is that the employee be onsite at a GM MEC facility on an average of three (3) days each week.

**About GM:**

At General Motors we pride ourselves on designing, building and selling the world's best vehicles. We are seeking a new generation of visionaries to help launch bold engineering and business initiatives, and shape new directions for General Motors. As an intern or co-op student working out of our headquarters, you will gain hands-on career specific experiences to maximize your real world potential.

**The Role:**

The Software Defined Vehicle will increase the vehicle's compute capability, be connected, and allow for faster software development cycles. As a Software Simulation Intern, you will be on the forefront of realistic automotive software-in-the-loop simulation environments creating highly optimized, largely automated, high-fidelity vehicles on demand which are capable of running thousands of simultaneous scenarios on cloud compute.

The simulations support algorithm development and validation of the Software Defined Vehicle architecture and protocols as well as algorithm development of hands-free driving in all situations, active safety features, in-vehicle Infotainment, and embedded control among others. The main areas of focus are controller virtualization, bus communication, optimization, vehicle dynamics and sensor modelling. You will be working cross-collaboratively with many teams to integrate these systems into a wider CI/CD toolchain and data analytics pipeline.

**Key Responsibilities:**

• Work within an Agile environment to define, plan, and analyze user-stories to meet the team's strategic objectives
•Combine engineering analysis with strong computer science fundamentals to create accurate physics-based simulation platforms to allow developers to test development controller code
•Work collaboratively with multiple teams to deliver end-to-end products and features
•Ensure deliverables are complete as per milestones with excellence
•Investigate simulation integration problems and provides technical input in problem resolution
•Maintain technical documentation to reflect accurate and current production installations
•Learn new technical concepts and practices quickly and apply them across multiple types of applications and software

**Qualifications:**
• Currently enrolled in a Computer Science, Applied Sciences, Mathematics, Data Analytics, or equivalent degree program or enrolled in an Engineer degree in Software, Computer, Electrical or Mechanical Engineering or equivalent
•Role is applicable for 3rd or 4th year undergraduate or Master students but will consider qualified 2nd year students with applicable project experience
•Eligible to work full-time (40 hours per week) in Canada, for 12 or 16-month term starting May 2025
•Knowledge of programming with C++
•Knowledge of Python or other scripting languages
•Able to work in a team as well as independently
•Must possess excellent communication skills

# PLEASE ONLY APPLY IF YOU DO NOT NEED SPONSORSHIP TO WORK IN CANADA NOW OR IN THE FUTURE. WE ARE UNABLE TO CONSIDER CANDIDATES WHO REQUIRE SPONSORSHIP.

## About GM
Our vision is a world with Zero Crashes, Zero Emissions and Zero Congestion and we embrace the responsibility to lead the change that will make our world better, safer and more equitable for all.

## Why Join Us
We aspire to be the most inclusive company in the world. We believe we all must make a choice every day - individually and collectively - to drive meaningful change through our words, our deeds and our culture. Our Work Appropriately philosophy supports our foundation of inclusion and provides employees the flexibility to work where they can have the greatest impact on achieving our goals, dependent on role needs. Every day, we want every employee, no matter their background, ethnicity, preferences, or location, to feel they belong to one General Motors team.

## Diversity Information
General Motors is committed to being a workplace that is not only free of discrimination, but one that genuinely fosters inclusion and belonging. We strongly believe that workforce diversity creates an environment in which our employees can thrive and develop better products for our customers. We understand and embrace the variety through which people gain experiences whether through professional, personal, educational, or volunteer opportunities.
We encourage interested candidates to review the key responsibilities and qualifications and apply for any positions that match your skills and capabilities.

# Equal Employment Opportunity Statement

Accommodation is available for applicants with disabilities. Should you be contacted by General Motors of Canada, please advise if you require accommodation. General Motors of Canada values diversity and is an equal opportunity employer.

**Citizenship Requirement** N/A

## APPLICATION INFORMATION

**Application Procedure** Through Employer Website
**Cover Letter Required?** Yes
**Address Cover Letter to** Hiring Manager
**Special Application Instructions**

**Application Link:** https://generalmotors.wd5.myworkdayjobs.com/Careers_GM/job/Markham-Ontario-Canada/Software-Developer---Simulation-Internship_JR-202502536

**Please click the "I intend to apply to this position" button on SCOPE and also submit your application via the employer's website.**

**Applications are accepted on a rolling basis and the posting may be expired at any time by the employer as submissions are received.**

**Students should submit their applications as soon as they are ready.**