

Job Posting:167875 - Position: S25 Software Development Intern 167875

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| Co-op Work Term Posted: | 2025 - Summer |
| App Deadline | 04/02/2025 09:00 AM |
| Application Method: | Through Employer Website |
| Posting Goes Live: | 03/12/2025 04:18 PM |
| Job Posting Status: | Approved |

ORGANIZATION INFORMATION

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| Organization | Arup |
| Country | Canada |

JOB POSTING INFORMATION

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| Placement Term | 2025 - Summer |
| Job Title | S25 Software Development Intern 167875 |
| Position Type | Co-op Position |
| Job Location | Toronto, ON |
| Country | Canada |
| Duration | 4 months |
| Salary Currency | CAD |
| Salary | 21.0 per hour for 0 Major List |
| Salary Range \$ | \$21.00 to \$36.00 per hour |
| Job Description | |

Job Title: Software Development Intern (May - August 2025)

Job ID: TOR0001E6

A future with purpose

At Arup we're dedicated to sustainable development and to do socially useful work that has meaning. Our purpose, shared values and collaborative approach has set us apart for over 75 years, guiding how we shape a better world.

We solve the world's most complex problems and deliver what seems impossible, with curiosity and creativity. We're a thriving and growing organisation which offers you many possibilities to shape a better world, and your future.

Developed in-house by Arup, MassMotion is the world's most flexible pedestrian crowd simulation software. MassMotion is based on groundbreaking research into the science of human movement and refined by data from real world projects. The software provides technical analysis of people's movement and refined by data from real world projects, you would be joining a full-time development team passionate about adding features and delivering the product roadmap for this product.

The opportunity

- Development of critical new features (C++, SQL). This could include agent behaviours, scene management, results analysis, and algorithm design
- Work with a broad user base to understand requirements and solicit feedback
- Validation of MassMotion results through comparison with real-world scenarios or results from other simulation packages

Is this role right for you?

We're looking for current students who are curious and ready to evolve how you think and work. Our strength comes from how we respect, share and connect our diverse experiences, perspectives and ideas. At Arup, you belong to an extraordinary collective - in which we encourage individuality to thrive. If you can share your knowledge and ideas and encourage others to do the same; whilst having a desire to deliver excellent services for clients - we'd like to hear from you.

Our teams notable projects

- Incorporating Augmented Reality and Virtual Reality Capabilities

- Developing an integrated Python development environment that can make use of MassMotion Software Development Kit to automate or customize authoring, simulation, or analysis in MassMotion
- Expanding modes of interaction with 3D scene via incorporating the ability to measure angles

What we offer you

At Arup, we care about each member's success, so we can grow together.

Guided by our values, we provide an attractive total reward package that recognizes the contribution of each of our members to our shared success. As well as competitive, fair and equitable pay, we offer a career in which all of our members can belong, grow and thrive - through benefits that support health and wellbeing, a wide range of learning opportunities and many possibilities to have an impact through the work they do.

We are owned in trust on behalf of our members, giving us the freedom, with personal responsibility, to set our own direction and choose work that aligns with our purpose and adds to Arup's legacy. Our members collaborate on ambitious projects to deliver remarkable outcomes for our clients and communities. Profit Share is a key part of our reward, enabling permanent members to share in the results of our collective efforts.

Toronto Hiring Range - The good faith base salary hiring range for this job if performed in Toronto is \$21.00 to \$36.00 per hour.

This range is commensurate with experience, educational background, and skill level. Benefits are not included in the base salary. Please note hiring ranges for candidates performing work outside of Toronto will differ.

Flexible Working - We believe that flexible arrangements create a more inclusive way of working that supports our diversity and the wellbeing of our people. Options for alternative schedules and the ability to work outside of the office for a portion of your workweek are available.

Next Steps

We will be reviewing our candidates for this position on a rolling basis. Once you've submitted your application, we'll invite you to showcase your skills through a pre-recorded video interview. After reviewing your submission, a member of our team will get in touch with you to discuss next steps.

Different people, shared values

Arup is an equal opportunity employer that actively promotes and nurtures a diverse and inclusive workforce. We welcome applications from individuals of all backgrounds, regardless of age (within legal limits), gender identity or expression, marital status, disability, neurotype or mental health, race or ethnicity, faith or belief, sexual orientation, socioeconomic background, and whether you're pregnant or on family leave. We are an open environment that embraces diverse experiences, perspectives, and ideas - this drives our excellence.

Guided by our values and alignment with the UN Sustainable Development Goals, we create and contribute to equitable spaces and systems, while cultivating a sense of belonging for all. Our internal employee networks support our inclusive culture: from race, ethnicity and cross-cultural working to gender equity and LGBTQ+ and disability inclusion - we aim to create a space for you to express yourself and make a positive difference. Discover more about life at Arup at www.arup.com/careers/your-life-at-arup.

Arup is an equal opportunity employer. All qualified applicants will receive consideration without regard to race, colour, religion, sex, sexual orientation, gender identity, national origin, protected veteran status, spouse of protected veteran, or disability.

Our Toronto office is located on ceded and unceded lands of many nations including the Mississaugas of the Credit, the Anishinabewaki, and the Haudenosaunee (hoe-dee-no-SHOW-nee). We acknowledge this land and its people to build a shared understanding of how our collective past brings us to where we are today. Through our ever-developing commitments, we strive to strengthen our relationships with this land, its people, and its treaties to shape a better, more inclusive world.

Stay safe online. Recruitment fraud is on the rise, and Arup's name, logo, and branding have been used in fraudulent job advertisements. Arup will never ask for bank information as part of our recruitment process.

Job Requirements

Qualifications - Required

- Must be pursuing a bachelor's or master's degree or equivalent
- Demonstrated curiosity about software development
- Experience programming in C++, C#, and/or Python, ideally developing 3D applications
- Familiarity with 3D modeling and/or animation including the use of Maya, 3DSMax, or SketchUp
- Candidate must be eligible to work in Canada without the need for employer sponsored work authorization now or in the future

Preferred

- Familiarity with 3D modeling and/or animation including the use of Maya, 3DSMax, or SketchUp
- Curiosity about agent-based AI, flocking, and emergent behaviour
- Curiosity about cloud-based computing and web analytics
- Ability to work independently and address technical problems with little supervision.

•Strong interpersonal and communication skills

Citizenship Requirement N/A

APPLICATION INFORMATION

Application Procedure Through Employer Website

Cover Letter Required? Optional

Special Application Instructions

Application Link:

<https://jobs.arup.com/jobs/software-development-intern-may-august-2025-25596>

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.