Why GRADUATE STUDIES in COMPUTING?

The School of Computing is active in research on a broad range of topics, with an strong research record. Research areas include: Biomedical Computing, Cloud Computing, Databases, Data Mining, Mobile Networks, Software Engineering, Human-Machine Learning, Algorithms, Computational Linguistics, Theoretical Computer Science, Computational Geometry, Graph Theory, Artificial Intelligence, Parallel Systems, and Programming Languages. We are finding methods to make data more secure, software more reliable, and computers more intelligent.

“The cutting-edge research, world-renowned supervisors, unparalleled social experience, and a devotion to school life [...] result in nothing short of awesome.”

Why QUEEN’S?

The Queen’s School of Computing offers a graduate program that is unique in its quality, diversity, innovation, and reach. Our faculty and students are engaged in research projects that span the spectrum of traditional computer science, while at the same time exploring areas never visited before. Some of us are discovering properties of certain computers that are radically different from the ones we have today, in the sense that a bit is the spin of an atom, or a register is a strand of DNA.

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GETTING STARTED

- Start with key priorities like developing your relationship with your supervisor, exploring possible research problems, and doing your coursework.
- Find your way through the academic process with help from departmental and School of Graduate Studies and Postdoctoral Affairs professional development workshops, the department Grad Chair, and the SGSPA website.

INTERMEDIATE STAGE

- Complete your coursework; begin to research and write your thesis or begin working on your project.

WRAPPING UP

- Complete and defend your thesis or present your project.

WHAT WILL I LEARN?

A graduate degree in Computing can equip you with:
- Knowledge and technical skills
- Effective communication skills in multiple forms for diverse audiences
- Information management: prioritize, organize, and synthesize large amounts of information
- Time management: meet deadlines and manage responsibilities despite competing demands
- Project management: develop ideas, gather information, analyze, critically appraise findings, draw and act on conclusions
- Creativity and innovation
- Perseverance
- Independence and experience as a collaborative worker
- Awareness, an understanding of sound ethical practices, social responsibility, research, and cultural sensitivity
- Professionalism in all aspects of work, research, and interactions
- Leadership: initiative and vision leading people and discussion

WHERE CAN I GO?

A Master’s degree in Computing can take your career in many directions. Some of our Reserves MSc may continue on to a PhD. In addition our MSc students are equipped with a strong foundation for careers including:
- Biomedical Engineer/Bioinformatics specialist
- Computer Systems/Database Manager
- Management positions in public, private and non-profit organizations
- Operations Research Specialist
- Systems Analyst/Operating Systems Programmer
- Systems Software Developer
- Telecommunications/Networks Engineer

Taking time to explore career options, build experience, and network can help you have a smooth transition to the world of work after graduation.

Build Skills and Experience

- Consider positions in student services, the SGPS, or media outlets like the Queen’s Journal, CFCR, or the SGSPA Blog. Look in the AMS Clubs Directory for more ideas.
- Serve on departmental, faculty, or university committees. Talk to the Students’ Graduate Computing Society for tips on getting involved.

Engage with your Community

- Women are encouraged to take part in the annual Canadian Celebration of Women in Computing (CAN-CWIC).
- Explore how you can connect with your community through experiential opportunities on- and off-campus.
- Consider volunteering with different local community organizations, such as Martha’s Table, or Loving Spoonful.
- Enjoy a hot beverage on Tuesday and Thursday coffee breaks with faculty and peers.

Launch your Career

- Finding a career that fits starts with knowing yourself. Get help by taking a Career Services workshop or meeting with a career educator and coach.
- Start reading publications like University Affairs and the Chronicle of Higher Education. Browse non-academic labour market websites. Stay on the lookout for special events like School of Graduate Studies and Postdoctoral Affairs Career Week to explore your career pathways.
- Check admission test deadlines if needed for further studies.

- Explore different careers of interest by using Queen’s Connects on LinkedIn to connect with Queen’s alumni. Check out Career Crossing for more information.
- If you are considering a PhD, explore programs of interest reach out to faculty, and apply to PhD programs and external scholarships.
- Participate in hiring committees and attend job talks. Start focusing on areas of interest. Research organizations of interest and start putting together your CV or resume for potential positions of interest. Get help from Career Services with job searching, resumes, and interviews.

- Consider positions in student services, the SGPS, or media organizations, such as Martha’s Table, or Loving Spoonful.
- Consider volunteering with different local community organizations, such as Martha’s Table, or Loving Spoonful.
- Start keeping an ePortfolio of your skills, experiences, and competencies.
- Use a Research Assistant or Teaching Assistant position to develop your research or teaching skills.
- For help with teaching, get support from the Centre for Teaching and Learning. Enrol in SGS902 or the PUTL Certificate for more professional development in teaching and learning.
- Contact a Grad Chair, department Grad Chair, and the Postdoctoral Affairs office.
- Start focusing on areas of interest. Research organizations of interest and start putting together your CV or resume for potential positions of interest. Get help from Career Services with job searching, resumes, and interviews.

- Attend or present at a graduate conference such as the Queen’s Computing Student Research Conference.
- Consider participating in the 3 Minute Thesis (3MT) competition.
- Expand your research audience through social media such as Twitter or a blog.
- Set up a meeting with the SGSPA for a Grad Chat to discuss your research interests.

- Practice articulating the skills you have been developing in settings outside the university, such as casual conversation, networking, and interviews. Get help from a Career Services workshop.
- Check out opportunities for extra training through CTL, School of Graduate Studies and Postdoctoral Affairs, professional development, MITACS, or other sources to boost your skills.

- Attend a conference or workshop, such as the International Conference on Software Engineering (ICSE), IEEE Medical Imaging conference, Conference on Human Factors in Computing Systems (CHI), or the Canadian Conference on Computational Geometry (CGG).
- Consider participating in the Queen’s Computing Student Research Conference.
- Consider publication options for your research.
- Attend a conference or workshop, such as the International Conference on Software Engineering (ICSE), IEEE Medical Imaging conference, Conference on Human Factors in Computing Systems (CHI), or the Canadian Conference on Computational Geometry (CGG).
- Consider putting an article in The Conversation.

- Do some targeted networking with people working in careers of interest, through Queen’s Connects on LinkedIn, the Queen’s Alumni Association, professional associations, and at conferences. Get help from a Career Services workshop.
- Consider joining professional associations like the Association for Computing Machinery (ACM) and IEEE.

How to use this map

Use the 5 rows of the map to explore possibilities and plan for success in the five overlapping areas of career and academics. The map just offers suggestions – you don’t have to do it all! To make your own custom map, use the My Grad Map tool.

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How do I make the most of my time at Queen's?

Use the Grad Map to plan for success in five overlapping areas of your career and academic life. Everyone's journey is different - the ideas on the maps are just suggestions to help you explore possibilities. For more support with your professional development, take advantage of the SGSPA professional development framework and the new Individual Development Plan (IDP) process to set customized goals to help you get career ready when you graduate.

Where can I get help?

Queen's provides you with a broad range of support services from your first point of contact with the university through to graduation. Ranging from help with academics and careers, to physical, emotional, or spiritual resources - our welcoming environment offers the programs and services you need to be successful, both academically and personally. Check out the SGSPA website for available resources.

What is the community like?

At Queen's, graduate students from all disciplines learn and discover in a close-knit intellectual community. You will find friends, peers and support among the graduate students enrolled in Queen's more than 130 graduate programs within 50+ departments & research centres. With the world's best scholars, prize-winning professional development opportunities, excellent funding packages and life in the affordable, historic waterfront city of Kingston, Queen's offers a wonderful environment for graduate studies. Queen's is an integral part of the Kingston community, with the campus nestled in the core of the city, only a 10-minute walk to downtown with its shopping, dining and waterfront. For more about Kingston's history and culture, see Queen's University's Discover Kingston page.

Application FAQs

What do I need to know to APPLY?

ACADEMIC REQUIREMENTS
- Undergraduate degree with a concentration in Computing Science.
- Candidates with high academic standing in an undergraduate degree other than computing science, who have some computing science background may be admitted as graduate preparatory students.
- Grade requirements: minimum upper second class standing (B+ average).

ADDITIONAL REQUIREMENTS
- If English is not a native language, prospective students must meet the English language proficiency requirements in writing, speaking, reading, and listening. The following minimum scores are required: (1) TOEFL iBT: Writing (24/30); Speaking (22/30); Reading (22/30); Listening (20/30). Applicants must have the minimum score in each test as well as the minimum overall score, or (2) IELTS: 7.0 (academic module overall band score and a 7.0 for each test band), or (3) PTE Academics: 65, or (4) CAEL CE -70 (minimum overall score).

KEY DATES & DEADLINES
- Application due: January 15th for both September and January admissions.
- Notification of acceptance: Between February and June.

Before you start your application, please review the Graduate studies application process.

What about FUNDING?

MSc students in the research stream receive minimum funding of $21,000 per year. The other streams (course work and project) are funded by the student.

Apply for external funding from OGS, NSERC, and other sources. Queen's will automatically issue a one time $5,000 award to incoming Masters students who have won federal government tri-council awards. For more information, see the School of Graduate Studies and Postdoctoral Affairs information on awards and scholarships.

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