



## SKILLS & ABILITIES BY PROGRAMS

WHAT OUR STUDENTS  
CAN DO FOR YOU

[concordia.ca/coopprograms](http://concordia.ca/coopprograms)

CONCORDIA

## 6 EASY STEPS TO HIRE A COOP STUDENT



1. **READ** through the program profiles to find which students have the skills and abilities you are looking for



2. **POST** your job description yourself on our online system at [icope.concordia.ca](http://icope.concordia.ca) after creating a profile on Compass or send it to the Institute if you encounter any issues



3. **RECEIVE** and **REVIEW** student applications



4. **SELECT** qualified candidates for interviews



5. Conduct **INTERVIEWS** coordinated for you



6. Make an **EMPLOYMENT** offer to your selected hire through the Co-op office

### DID YOU KNOW...

- Over 70% of our students are bilingual (FR/EN)
- Over 3000 students in over 45 programs
- You gain access to only top performing students with our minimum GPA requirements
- Internships can start in January, May, or September
- 4, 8, 12, or 16 month internships available
- Your company could be eligible for a [tax credit](#) for the student & supervisor salary, and other funding opportunities
- Our students take internships across Canada and around the world

### NEW & GROWING PROGRAMS

- Cyber Security
- MSc Finance
- MSc Marketing
- MSc Management
- MSc Supply Chain Operations Management
- Professional Writing

## LIST OF PROGRAMS

### JOHN MOLSON SCHOOL OF BUSINESS

#### UNDERGRADUATE

- Accountancy
- Business Technology Management
- Finance
- Human Resource Management
- International Business
- Marketing
- Supply Chain Operations Management

#### GRADUATE

- Master's in Business Administration (MBA)
- MSc Finance
- MSc Management
- MSc Marketing
- MSc Supply Chain Operations

### GINA CODY SCHOOL OF ENGINEERING AND COMPUTER SCIENCE

#### UNDERGRADUATE

- Aerospace Engineering
- Building Engineering
- Civil Engineering
- Computer Engineering
- Computer Science
- Electrical Engineering
- Industrial Engineering
- Mechanical Engineering
- Software Engineering

#### GRADUATE

- MAsc Information Systems Engineering (Cyber Security)
- MAsc Quality Systems Engineering

### FACULTY OF ARTS & SCIENCE AND FACULTY OF FINE ARTS

- Actuarial Mathematics
- Actuarial Mathematics/Finance
- Biochemistry
- Chemistry
- Economics and MA Economics
- Finance
- Journalism
- Mathematics
- Mathematical Computational Finance

- Physics
- Political Science
- Professional Writing (English)
- Sociology/Anthropology
- Statistics
- Translation (English and French)
  
- Computational Arts
- Design

## JOHN MOLSON SCHOOL OF BUSINESS

### UNDERGRADUATE

#### Accountancy

---

- Bookkeeping
- Accounts payable and receivable
- Cost accounting dossiers
- Internal and external audits
- Taxation of Canadian Non-residents
- Sales tax reporting
- Internal control design and testing
- Financial statements
- Personal and corporate tax files

#### Business Technology Management

---

- Designing and developing database systems
- Management of IT projects
- IT Audits
- Database management
- Information Systems Risk Management
- IT strategic planning and technological transformation
- Defining IS for R & D documentation
- ERP Systems Implementation and Analysis
- Business Systems Analysis

#### Finance

---

- Real estate investments and analysis
- Capital structure and leverage analysis
- Capital budgeting analysis
- Bond and stock valuations
- Options and Futures & Foreign exchange
- Capital asset pricing model / Arbitrage model
- Mergers & Acquisitions
- Portfolio Investment Analysis / Portfolio Management
- Working capital management

#### Human Resource Management

---

- Strategic human resource practices
- Talent and change management
- Compensation and benefits
- Survey design, best practices and pay equity
- Performance management
- Recruitment selection and onboarding
- Designing job descriptions
- Training and development
- Industrial relations

#### International Business

---

- International market research and analysis
- International communication and relations
- Global social media
- Verbal and written translations
- Implications and repercussions of international policy change
- Audits of international standards procedures and implementation

#### Marketing

---

- Digital and social media campaign creation
- Marketing research (qualitative / quantitative)
- Event and trade show planning
- Copywriting for online and offline applications
- Product management / Sales support
- Public relations planning and execution
- Presentation design and production
- Managing internal communication programs
- Market analysis

#### Supply Chain Operations Management

---

- Production operations management
- Process controls and improvements
- Development of project milestone deliverables
- Supply Chain Control and materials Planning
- Forecasting + demand planning
- Supply Chain Risk Management
- Supply Chain Analytics
- Procurement
- Logistics

## GRADUATE

### Master's in Business Administration (MBA)

---

- Full cycle project and product management
- Surveying, statistics and data analysis
- Market trends and key growth strategies and analysis
- Operations management and value stream mapping
- Feasibility studies and develop business plans
- Market entry strategies / customer journey mapping
- Financial reporting and decision making
- IT sourcing strategies and implementation
- Develop marketing and communications plans.

### MSc Finance

---

- Knowledge of core concepts and advances in the field of specialization, for example asset pricing, corporate finance, and event studies
- Knowledge of core methodologies in the field of specialization (e.g., regression methods, data management and analysis)
- Designing, managing, and completing an applied research project in the field of specialization
- Producing and delivering high quality reports
- Complying with codes of ethics, confidentiality, anonymity, and intellectual property rules.
- Identifying relevant, up-to-date and credible sources of information and making evidence based recommendations that may be usefully applied to the organization.

### MSc Supply Chain Operation Management

---

- Knowledge of core concepts and advances in the field of specialization, for example, operations management, logistics, procurement, and information technology to manage materials, inventory and goods from their points of origin to their points of consumption.
- Knowledge of core methodologies in the field of supply chain management
- Designing, managing, and completing an applied research project in the field of specialization
- Producing and delivering high quality reports
- Complying with codes of ethics, confidentiality, anonymity, and intellectual property rules.
- Identifying relevant, up-to-date and credible sources of information and making evidence based recommendations that may be usefully applied to the organization.

### MSc Management

---

- Knowledge of core concepts and advances in the field of specialization, for example employee development, leadership, sustainability and social responsibility
- Knowledge of core methodologies in the field of specialization (e.g., survey design, interviewing, experimental design)
- Designing, managing, and completing an applied research project in the field of specialization
- Producing and delivering high quality reports
- Complying with codes of ethics, confidentiality, anonymity, and intellectual property rules.
- Identifying relevant, up-to-date and credible sources of information and making evidence based recommendations that may be usefully applied to the organization.

### MSc Marketing

---

- Knowledge of core concepts and advances in the field of specialization, for example assessment of consumer perceptions and needs, management of brands, management of products/services and of pricing
- Knowledge of core methodologies in the field of specialization (e.g., survey design, interviewing, experimental design) •
- Designing, managing, and completing an applied research project in the field of specialization
- Producing and delivering high quality reports
- Complying with codes of ethics, confidentiality, anonymity, and intellectual property rules.
- Identifying relevant, up-to-date and credible sources of information and making evidence-based recommendations that may be usefully applied to the organization.

## GINA CODY SCHOOL OF ENGINEERING AND COMPUTER SCIENCE

### UNDERGRADUATE

#### Aerospace Engineering

---

- Creating and reviewing technical drawings
- Designing aerospace subsystems
- Researching on composites for aircraft
- Simulating flows using CFD
- Gas turbine performance analysis
- Low emissions combustor redesign

#### Building Engineering

---

- Producing AutoCAD drawings
- Site visits and inspections
- Project Management
- Building inspections
- Energy audit of buildings
- Preparing plans for HVAC systems
- Preparing plans for electrical systems
- Engineering surveying

#### Civil Engineering

---

- Geometric and pavement design of roads
- Civil Infrastructure design
- Engineering surveying
- Assessing buildings equipment and systems
- Geotechnical site investigation
- Project Management
- Inspecting construction sites
- Environmental assessments

#### Computer Engineering

---

- Software systems requirements, designs, implementation and testing
- Hardware design, testing and implementation
- Developing real-time emedded systems
- Developing telecom and communicaiton network systems
- Data structure and algorithms
- Computer Architecture and Design

#### Computer Science

---

- Windows, Linux, Oracle, Java and C++
- Providing technical support
- Analyzing and developing computer solutions
- Creating, designing, modifying, and testing software
- Planning and implementing computer security systems for database access control
- Creating web pages

#### Electrical Engineering

---

- Analyzing, designing, and verifying integrated circuitries
- Designing, testing, and integrating telecom solutions
- Developing Power and Renewable Energy Systems
- Developing robotic and avionics systems



### Industrial Engineering

---

- Production and operations planning
- Process improvement and re-engineering
- Designing plant layout
- Logistics planning and optimization
- Lean Six Sigma
- Inventory optimization and forecasting
- Simulation and optimization of business processes
- Performing ergonomic evaluations
- Capacity and backlog analysis

### Mechanical Engineering

---

- Production and operations engineering
- Designing mechanical parts
- Researching on composites for aircraft
- Assembling a pipeline
- Creating and reviewing mechanical and technical drawings
- Preparing specimens for testing and analyzing the results
- Project Management

### Software Engineering

---

- Analyzing, designing, implementing and maintaining systems
- Analyzing and developing computer solutions
- Provide technical support
- Developing, programming, designing, coding and testing
- Planning and implementing computer security systems
- Design, implement and evaluate user interfaces
- Developing real-time control and data acquisition systems
- Windows, Linux, Oracle, Java and C++
- Project management

## GRADUATE

### MASc Information Systems Security (Cyber Security)

---

- Research, development and documentation of projects
- Developing secure protocols
- Developing secure applications
- Systems Hardening
- Cloud security
- Software development
- Bugs and malware analysis
- Big data analysis and verifications

### MASc Quality Systems Engineering

---

- Planning, developing, testing, implementing, monitoring, maintaining and improving systems
- Systems reliability and process re-engineering
- Quality assurance
- Project management
- Developing DB 2 Kernel
- Analysis of quality systems and supply chain operations management

## FACULTY OF ARTS & SCIENCE

### Actuarial Mathematics/Finance

---

- Mathematical modeling
- Analysis and risk control
- Financial and statistical analysis
- Health benefits planning and calculations
- Theory and programming languages
- Pension management
- Insurance products
- Actuarial consulting

### Actuarial Mathematics

---

- Specialized knowledge in calculus, statistics and probability
- Evaluating insurance products
- Pension plans and risk management
- Statistical analysis
- Database manipulation
- Programming in SAS, VBA, R
- Pricing (re-) insurance products
- Modeling distributions

### Biology

---

- Microbiology/virology assays, bacteria/viral culture and counting
- Characterize the effects of drug candidates in cells and/or in animals
- Bacteria or blood smear preparations and staining
- ELISA, DNA cloning, plasmid isolation, PCR, sequencing
- Field assistant, species identification, measurement and counting
- Collecting biological and/or soil samples/information
- Museum specimen curation and biological data curation

### Biochemistry

---

- Laboratory and instrumentation training
- Analysis of protein structure and transitions
- Detecting biomolecular interaction
- Extracting, purifying and quantitating metabolites in biological samples
- Calorimetry, circular dichroism, DNA denaturation
- Designing purification devices and protein purification
- Investigating DNA cloning
- Cell culture, receptor and enzyme assays
- Quality Control, Quality Assurance, Regulatory Affairs

### Chemistry

---

- Laboratory and instrumentation training
- Synthesis, purification and characterization of organic and inorganic compounds
- NMR, IR, GC, GC-MS basics
- Wet analytical chemistry methods
- Kinetic analysis via spectroscopic techniques
- Quality Control, Quality Assurance, and Regulatory Affairs
- Environmental chemistry analysis

### Economics and MA Economics

---

- Analysis of income and production
- Analysis and interpretation of numerical and financial information
- Investment analysis
- Analysis of taxes and government expenditures
- Econometrics
- Public sector policies
- Study of labour
- Qualitative and quantitative analyses
- Interpretation of survey data

### Journalism

---

- Story chasing and news reporting
- Anchor and broadcast media
- Social media and blog management
- Digital/Web content production
- Public relations
- Corporate communications
- Recording and editing audio/video
- Event production and planning
- Photography, InDesign and Photoshop

### Mathematics

---

- Industry and market statistics and analysis
- Developing databases
- Investment and data analysis
- Cryptography
- Analysis of statistics
- Testing survey hypotheses
- Manipulating algorithms
- Computer hardware, software development and testing

### Mathematical Computational Finance

---

- Financial engineering
- Quantitative modelling and risk management
- Portfolio management
- Investment trading
- Algorithmic and high frequency trading
- Investment and data analysis

### Physics

---

- Quantitative data analysis
- Numerical and theoretical modeling
- Electronics and computer engineering software/hardware
- Modeling development in lasers and optics
- Image processing and medical imaging modeling
- Micro/Nano fabrication
- Fabrication of organic solar cells,
- Quantitative biology and modeling chemical reactions
- Astro Physics

### Political Science

---

- Public policy evaluation and research (local or international)
- Government or business organizational policies and procedures
- Economic and statistical analysis
- Legal matters and regulatory documentation
- Business reports, administration, and presentations
- Event and project coordination
- Public relations and corporate communications
- Corporate Social Responsibility
- Human Rights, advocacy and critical analysis

### Professional Writing (English)

---

- Copywriting
- Copy Editing
- Technical Writing
- Technical Editing
- Speech Writing
- Proposal Writing
- Corporate Communications
- Social Media and Blog Management
- Digital Web Content Management

### Sociology/Anthropology

---

- Statistics, economics and data management
- Public opinion tracking and market analysis
- Behavioral analysis for marketing of products/services
- Human resource policies
- Corporate Social Responsibility
- Customer or public relations
- Internal and external communications
- Human rights
- Museums and Cultural Affairs
- Local community advocacy

### Statistics

---

- Biostatistics
- Collection, Analysis and Interpretation of Data
- Development & planning of business and market strategies
- Hypothesis testing, forecasting and predicting
- Management of investment portfolios
- Survey analysis
- Software development
- Shaping of public policy in government

### Translation (English and French)

---

- Commercial, legal, financial, technical, literary, video games, subtitling and social sciences translation
- Annual reports, speeches, press releases, memos and reports, catalogues, training guides and newsletter documents
- Project management and website localization
- Creation and management of terminology records

## FACULTY OF FINE ARTS

### Computation Arts

---

- Web project design and development
- Multimedia project design and development
- Videogame design and development
- 3D modelling and animation
- Sound and video editing
- User interface and interaction design
- Digital media landscape assessment

### Design

---

- Print layout and design
- Website structuring
- Product conceptualization for branding strategies
- Photography and digital illustration
- 2D and 3D design
- Public space design
- Sustainability-oriented design
- Video editing and animation

*Partner with us  
to cultivate Next-Gen talent.*

