

CGI is among the largest independent IT and business consulting services firms in the world

CGI

77,500 professionals

80% shareholders

10 focused industries

5000+ clients

9.2/10 client loyalty score

150+
mission-critical
IP-based solutions

5 continents

\$11.5B annual revenue

\$22.6B backlog

Figures are in Canadian dollars. Statistics verified as of September 2019.

A few of our clients



Financial Services











Health













Government











Communications













Utilities







Oil & Gas







Manufacturing





BOMBARDIER





RioTinto

Transportation









Post & Logistics









Retail & Consumer Services











Over **5,000** commercial and government organizations worldwide



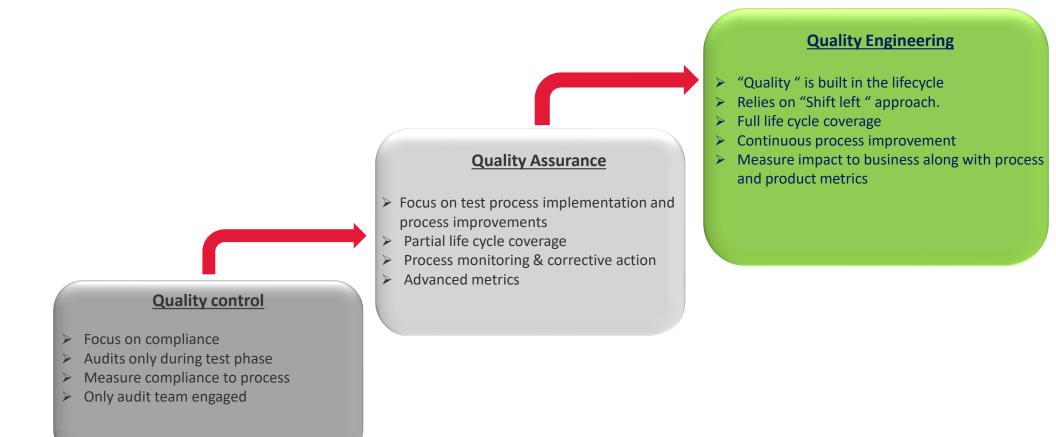


Quality Engineering



Quality Engineering evolution





Key driving factors – for "Quality Engineering"



- Speed to market, alignment with agile principles
- Everyone is accountable for software quality
- Automation is a key enabler to increase "Velocity" of time to market
- Devops CI/CD is the new paradigm
- Focus on technical debt reduction



Quality Engineering Toolset

JUnit	Selenium	TestNG	JMeter
 Open-source unit testing framework for Java programming language Provides annotations to attach with Java methods Provides assertions to test the Java methods Improves code quality as the code is tested at the unit level early during the development 	 Open-source automation tool Used to automate web applications running in the web browser Supports all the modern browsers i.e. Chrome, Firefox, Edge, Safari Supports all the operating systems Supports Java, Python, JavaScript, C#, Perl, Ruby to write the automation code Integrates with Cucumber BDD testing framework to achieve end to end automation in Agile projects 	 Open-source unit testing framework with additional testing support Enables running test suites consisting of multiple test cases Provides enhanced reporting for the test suite runs 	 Open-source performance testing Used for Load/Stress testing Supports HTTP, HTTPS, FTP, SMTP, TCP and various other protocols Supports various reports for performance analysis/tuning

Quality Engineering Demo





Unit Testing



Used for TDD (Test Driven Development)



UI Automation

 Used by QEs (Quality Engineers) and SDETs to automate the web applications



Agile Test Design

- Cucumber BDD framework is used to write test cases in Gherkin language
- The Gherkin test cases fully support Agile projects



Automation orchestration and Reporting

- Used to run Selenium automation test suites
- Enhances automation test reporting



Performance Testing

- Used for performance testing load/stress
- Supports various front/back end technologies





Wishing all of you great success in your career!

Please reach out to us for any questions

Anthony Deluca - Anthony. Deluca@cgi.com

Lakshmi Ranganathan - <u>Lakshmi.Yeriranganathan@cgi.com</u>

Sandeep Singh - Sand.Singh@cgi.com

Justin Newman - <u>Justin.Newman@cgi.com</u>