ANNEX A - STATEMENT OF WORK

1.0 Title: COVID-19 Pandemic Requirement – Informatics Professional Services

2.0 Objective

*** THIS CONTRACT IS BEING PUT IN PLACE BY CANADA AS PART OF ITS RESPONSE TO THE COVID-19 PANDEMIC ***

The public health threat posed by the COVID-19 pandemic has led all levels of government to take unprecedented measures to help slow the spread of COVID-19 and thereby minimise serious illness, death and social disruption resulting from the pandemic. Difficult choices are being made in a context of considerable uncertainty, as knowledge about COVID-19 and the impact of unprecedented public health measures evolve rapidly. In March 2020, COVID-19 was declared a pandemic by the World Health Organization (WHO). As it began to spread across the world, the Government of Canada (GoC) enacted a number of public health measures, including actions to tighten Canada's border and reduce international travel.

The Canada Border Services Agency (CBSA) requires a variety of Information Management (IM)/Information Technology (IT) professional resource services to support changes to the operational environment to better respond to the needs of the public, public safety and employee safety given the threat of Covid19 and its variants. Engendering trust in the health and safety within Canada's travel industry, commercial industry and safety at the front lines for Border Services Officers (BSOs) protective measures in-line with the need to address the risks of Covid, the CBSA needs to react and adapt, leveraging IT to meet these needs.

These immediate health and safety requirements will leverage information technology tools and capabilities to provide safe social distancing and touch-less alternative methods for the management of the border, by protecting Canadians, travelers to Canada and CBSA Officers against potential exposure to the Covid19 virus and variants.

Work will focus on the following areas:

- 1. Border Services Officers' Tools Protective Measures in-line with Covid-19 environment.
- 2. Engender trust in the health and safety within Canada's air industry by implementing alternatives to move away from airport high touch/zero social distancing/paper methods to airport low touch/high social distancing/paper-less alternative methods.
- 3. Increase and enhance remote border and migrant workers reporting opportunities and capabilities (social distancing) at land border crossings, marine (pleasure boats), train and private/remote airports.
- 4. Implement modern risk assessment tools to support and enable predictive analytics to address the growing volumes of low-value shipments (contact-less delivery).
- 5. Ensure the safety of all travelers crossing ports of entry with proof of vaccination, digital credentials and reporting of Covid19 test results to the appropriate health authority.
- 6. Increase and enhance safety within the commercial industry in reducing risk of Covid transmission by implementing low touch/no touch methods.

This will include, but will not be limited to work in the following technical areas: mobile applications development (both iOS and Android), web applications, smart mobile technologies, biometrics, digital

credentials, CBSA public cloud (services Amazon Web Services (AWS), Azure, etc), infrastructure and operations), predictive analytics, geolocation (remote border), Application Programming Interface (API) development, cyber security, near field communication, optical character recognition, document reading, electronic data manifest ingestion, architecture (mobile, security, cloud), digitization of paper forms (and process), user experience, design sessions, user-analytics, accessibility requirements, hands-free capabilities/technologies integration, systems integration, federation, integrated control systems, sensor technology, experimentation framework, smart orchestration, Border Services Officers Risk Assessment augmentation technology, artificial intelligence and machine learning.

3.0 Background

CBSA is responsible for providing integrated services supporting national security and public safety priorities while facilitating the free flow of people and goods. CBSA manages this priority through its design, development, implementation and ongoing support of IM/IT tools and systems at the Agency, while maintaining the integrity and availability of all technology infrastructures and applications.

Information, Science and Technology Branch (ISTB) provides technology leadership of operational IT applications/programs and corporate business applications at CBSA. ISTB provides delivery of technology products, applications and services to meet business needs while investing in modern IT infrastructure to maintain, build on and innovate current and future IM/IT Agency initiatives.

The Border Technologies Innovation Directorate (BTID) is responsible for the prototyping, development, and deployment of innovative and transformative initiatives while overseeing Enterprise Architecture for ISTB. These initiatives include, but are not limited to, critical systems and applications that serve as common components for internal and external stakeholders. As well, BTID is accountable for the design, development and delivery of enterprise and corporate IT/IM solutions in support of CBSA's mandate.

The BTID is responsible for the design, development, planning and analysis, maintenance and implementation/roll out of IM/IT innovation enterprise programs across CBSA. BTID is the National Centre of Expertise (NCOE) for all innovation IT development projects. BTID is accountable for the coordination, technical lead on and delivery of the IM/IT critical innovation projects.

As a result of the COVID 19 pandemic, CBSA is looking to engage IT Professional Services to help them to develop critical solutions in the areas pertaining to our national ArriveCan application, Artificial Intelligence (AI) driven tools for CBSA's frontline officers (BSO's), remote Border crossing capabilities, touchless services (leveraging biometrics) across our traveler, commercial & Enforcement & Intelligence operational and program business lines, cloud and e-commerce solutions to facilitate an increased amount of shipments crossing the border due to COVID. All solutions are put in place to increase safety and security to all Canadians during this pandemic and onward.

4.0 Scope of the Work

The intent of these solutions is to provide safe, digital, data driven and secure alternatives for CBSA to continue to conduct their business and fulfil their mandates during the COVID pandemic and onward. These solutions will primarily reduce exposure to potential risks for Canadians, travelers and front line Border Services Officers when travelers and shipments are entering Canada from abroad.

The Contractor must provide IM/IT professional services on an as and when required basis in the National Capital Region (NCR) (to be outlined in Task Authorizations sent for the Work) and in accordance with best practices. Projects may be in any of the following stages: scoping and approval, experimentation, prototyping, minimal viable product, piloting, operationalization, transition to IT OPS, identification, in the midst of work, or delivery. CBSA requires the following IT Professional Services:

Workstream 1 – Application and Data Services

(a)	RESOURCE CATEGORY	Level of
(a)		Expertise
A.1	Application/Software Architect	Level 3
I.5	IM Architect – Cloud	Level 3
I.10	Technical Architect	Level 3
1.5	IM Architect – Data/ Al	Level 3
I.10	Technical Architect - Mobile	Level 3
A.16	Web Multi Media Content Consultant	Level 3
A.6	Programmer / Software Developer (iOS/ Android)	Level 3
A.14	Web Developer	Level 3
P.11	Quality Assurance Specialist / Analyst	Level 3

The Work will involve, but will not be limited to, the ability of industry to provide such IT Services as outlined below:

- a. Business Architecture: A description of the structure and interaction between the business strategy, Organizational Design, Functions and/or Services Capabilities, related business, value streams, value chains, Processes producing product deliverables and information records of Business values, achieving results and information needs in compliance with the Record Keeping Directive and other information management policies and best practices. Business Architects often work with Service Architects, Business Analysts and Business Process modelers.
- b. **Information & Data Architecture**: The structure of an organization's logical and physical data assets and data management resources. The data architect defines the collection, storage and movement of data (data models and data flow), normalize data where applicable or efficient across an organization. The Information Architect, Data scientist, extract meaning from data or information and make recommendations as to how to optimize their value.
- c. **Applications Architecture**: A description of the structure and interaction of the applications as groups of capabilities that provide key business functions, services related processes. They can be involved in management of the data assets inclusive of Critical Services, Business Impact Assessments, Business Continuity Plan, Disaster Recovery Plans. Application Architects are well versed into the modern ways to build software as Services, ERPs approaches, and make recommendations as to how they should be built whether the application is a Commercially Of the Shelf (CoTS) solution or a development effort.
- d. **Technology Architecture**: Are responsible for designing the high level structure of new technology Solutions, including emerging and potentially disruptive technologies that Solution teams may use. The description of the structure and interaction of the platform services, and logical and physical technology components often include related risks and potential roadblocks. This includes IT infrastructure, middleware, networks, communications, end user devices, service and systems management, hybrid cloud services, processing and related standards.
- e. **Solution Architecture**: Is the practice of defining and describing an architecture of a system delivered in the context of a specific solution and as such it may encompass description of an entire system or only specific parts. The production of complete sets of Enterprise Solution Architecture documents for specific solutions may include making recommendations guiding the reuse of existing solutions, the refactoring of application code, the acquisition of solution from Industry (CoTS) or the building of solutions when none exist bringing together elements and components from the aforementioned Architectural dimensions.

5.0 Tasks

The Contractor must provide support for IM/IT professional services on an as and when required basis. Each validly issued Task Authorization will outline the type of resource(s), the work and tasks to be completed and the location of the Work, whether in the NCR or remotely.

Tasks include, but are not limited to the following:

Workstream 1: Application and Data Services

A.1 – Application/Software Architect – Level 3

Responsibilities could include but are not limited to

- Develop technical architectures, frameworks and strategies, either for an organization or for a major application area, to meet the business and application requirements
- Identify the policies and requirements that drive out a particular solution
- Analyze and evaluate alternative technology solutions to meet business problems
- Ensures the integration of all aspects of technology solutions
- Monitor industry trends to ensure that solutions fit with government and industry directions for technology
- Analyze functional requirements to identify information, procedures and decision flows
- Evaluate existing procedures and methods, identify and document database content, structure, and application sub-systems, and develop data dictionary
- Define and document interfaces of manual to automated operations within application subsystems, to external systems and between new and existing systems
- Define input/output sources, including detailed plan for technical design phase, and obtain approval of the system proposal
- Identify and document system specific standards relating to programming, documentation and testing, covering program libraries, data dictionaries, naming conventions, etc.

The Application/Software Architect will be responsible for, but not limited to, the following tasks:

- Develop technical architectures, frameworks and strategies, for adoption and investments either for an organization or for a major application area, to meet the business and application requirements
- Identify the policies and requirements that drive out a particular solution
- Analyze and evaluate alternative and emerging technology solutions towards digital innovation of both business and technical areas and related integration to solve business problems
- Ensure the integration of all aspects of technology solutions
- Provide expertise in Cloud advisory and architecture services aligned with CBSA and TBS guiding principles.
- Provide advice, and progressive awareness towards the GC Architecture standards and assist in building related communities of practices.
- Monitor industry trends to ensure that solutions fit with government and industry directions for technology
- Analyze functional requirements to identify information, procedures and decision flows
- Evaluate existing procedures and methods, identify and document database content, structure, and application sub-systems, and develop data dictionary
- Define and document interfaces of manual to automated operations within application sub-systems, to external systems and between new and existing systems.
- · conceptualize, plan and conduct research and analysis on new and existing application systems
- develop conceptual, logical and physical architectures
- develop solutions for complex IT projects involving technological components that include business requirements and systems development

- design functionality on IM/IT projects
- provide guidance to the development team during implementation of the design
- analyze and evaluate alternative technology solutions for application and software development to meet business requirements (or solve business problems)
- monitor industry trends to ensure that solutions fit with government and industry directions for technology
- develop solutions with an operational data store and/or a data warehouse
- evaluate EC's existing procedures and methods for application/softwware development, identify and document database content, structure and application subsystems and develop data dictionaries
- define input/output sources, including detailed plan for technical design phase and obtain approval
 of the Technical Authority of the system proposal
- Upon request, perform other related tasks of solution architects as may be assigned by the Technical Authority or delegate.

I.5 - IM ARCHITECT - CLOUD - Level 3

Responsibilities could include but are not limited to

- Analyse existing capabilities and requirements, develop redesigned frameworks and recommend areas for improved capability and integration. Develop and document detailed statements of requirements
- Evaluate existing procedures and methods, identify and document database content, structure, and application subsystems, and develop data dictionary
- Define and document interfaces of manual to automated operations within application subsystems, to external systems, and between new and existing systems
- Prototype potential solutions, provide tradeoff information and suggest recommended courses of action
- Perform information modelling in support of BPR implementation
- Perform cost/benefit analysis of implementing new processes and solutions
- Provide advice in developing and integrating process and information models between business processes to eliminate information and process redundancies.
- Provide advice in defining new requirements and opportunities for applying efficient and effective solutions; identify and provide preliminary costs of potential options.

The IM Architect (Cloud) will be responsible for, but not limited to, the following tasks:

- Cloud applications, services, and data base architecture options within AWS and MS Azure,
- Implement near-real-time SQL data flows for Data Warehousing, Cloud-to-Cloud data flows, Data Mining, Business Intelligence, analytics, and reporting.
- OLAP, SSAS / Data Cube storage and retrieval techniques to optimize retrieval and analysis of data spread across multiple SQL databases / disparate tables and files. There is a need to retrieve data based on dynamic criteria such as time-periods, geographic locations, and other parameters.
- Big Data Analytics algorithms, analysis, and languages/ecosystems for scalable implementation; including migrating existing Matlab analyses to cloud computing scalable languages and ecosystems. For example, R and Python on Spark for scalable multi-threaded computing.
- MS Azure cloud applications, services, data base options, implementing near-real-time data flows, analytics and visualization / reporting.
- SQL data base development in multiple environments, design for a stable, reliable, high performance environment, and troubleshooting / optimizing legacy cloud data flows.

I.5 – IM Architect - Data/ AI – Level 3

Responsibilities could include but are not limited to

- Analyse existing capabilities and requirements, develop redesigned frameworks and recommend areas for improved capability and integration. Develop and document detailed statements of requirements
- Evaluate existing procedures and methods, identify and document database content, structure, and application subsystems, and develop data dictionary
- Define and document interfaces of manual to automated operations within application subsystems, to external systems, and between new and existing systems
- Prototype potential solutions, provide tradeoff information and suggest recommended courses of action
- Perform information modelling in support of BPR implementation
- Perform cost/benefit analysis of implementing new processes and solutions
- Provide advice in developing and integrating process and information models between business processes to eliminate information and process redundancies.
- Provide advice in defining new requirements and opportunities for applying efficient and effective solutions; identify and provide preliminary costs of potential options.

The IM Architect (Data) will be responsible for, but not limited to, the following tasks:

- Identify the policies and requirements that drive out a particular solution
- Analyze current Information and Data architectures and plan and produce target states.
- Analyze and evaluate alternative technology solutions to meet business problems
- Ensure the integration of all aspects of technology solutions
- Monitor industry trends to ensure that solutions fit with government and industry directions for technology
- Analyze functional requirements to identify information and data, procedures and decision flows
- Evaluate existing procedures and methods, identify and document database content, structure, and application sub-systems, and develop data dictionary
- Define and document interfaces of manual to automated operations within application sub-systems, to external systems and between new and existing systems, including data models, data flows and normalization and standardization procedures, controlled vocabularies and dictionaries.
- Define input/output sources, including detailed plan for technical design phase, and obtain approval
 of the system proposal
- Identify and document system specific standards relating to programming, documentation and testing, covering program libraries, data dictionaries, naming conventions, etc
- Experience using ERWin, Sprax Architect and data modelling notations such as IDEF producing solution specific and Enterprise level Data Models (EDM), Data Flows and applicability for Interoperability purposes – Enterprise Service Bus (ESB), Application Programming Interfaces (APIs), potential standard messaging between business applications and related system software.
- · Produce documentation specifying the resulting design and recommendations of the analysis
- define and assess client information and data requirements
- Implement the information and data architecture, flows and models, dictionaries, controlled vocabularies across CBSA. Produce Subject Area models, Information & data flows, Entity or Object diagrams
- Identify and evaluate potential options for metadata management
- Develop strategy and framework documents and action plans
- Make strategic recommendations to senior management (i.e. written strategy documents for the use of senior management in the Government of Canada environment)
- Present recommendations to senior management
- Facilitate Working Sessions to identify Information and Data requirements, flows, standards
- Analyze, define and document business data requirements and system data requirements
- Analyze, define and document metadata requirements for information systems
- Develop technical documents for enterprise information architecture for review and acceptance by senior management

I.10 - Technical Architect - Level 3

Responsibilities could include but are not limited to

- Develop technical architectures, frameworks and strategies, either for an organization or for a major application area, to meet the business and application requirements
- Identify policies and requirements that drive out a particular solution
- Analyze and evaluate alternative technology solutions to meet business problems
- Ensure the integration of all aspects of technology solutions
- Evaluate hardware and software relative to their ability to support specified requirements and, by determining potential and actual bottlenecks, and improve system performance through recommended hardware changes
- Review computer software systems and data requirements as well as communication and response needs and determine operating systems and languages needed to support them

The Technical Architect will be responsible for, but not limited to, the following tasks:

- Develop technical architectures, frameworks and strategies, either for an organization or for a major application area, to meet the business and application requirements.
- Identify policies and requirements that drive out a particular solution.
- Analyze and evaluate alternative technology solutions to meet business problems.
- Ensure the integration of all aspects of technology solutions.
- Evaluate hardware and software relative to their ability to support specified requirements and, by determining potential and actual bottlenecks, and improve system performance through recommended hardware changes.
- Review computer software systems and data requirements as well as communication and response needs and determine operating systems and languages needed to support them
- Make recommendations as to the use and placement in an architectural and physical/design sense of newer main stream technologies to replace current legacy and obsolete technology components and approaches, potential use of emergent or potentially disruptive technologies such as Artificial Intelligence, Machine Learning or Blockchain. Use cases for example.

I.10 - Technical Architect (Mobile) - Level 3

Responsibilities could include but are not limited to

- Develop technical architectures, frameworks and strategies, either for an organization or for a major application area, to meet the business and application requirements
- Identify policies and requirements that drive out a particular solution
- Analyze and evaluate alternative technology solutions to meet business problems
- Ensure the integration of all aspects of technology solutions
- Evaluate hardware and software relative to their ability to support specified requirements and, by determining potential and actual bottlenecks, and improve system performance through recommended hardware changes
- Review computer software systems and data requirements as well as communication and response needs and determine operating systems and languages needed to support them

The Technical Architect (Mobile) will be responsible for, but not limited to, the following tasks:

- Develop Mobile technical architectures, frameworks and strategies, either for an organization or for a major application area, to meet the business and application requirements.
- Identify the policies and requirements that drive out a particular solution.
- Analyze and evaluate alternative technology solutions to meet business problems.

- Ensure the integration of all aspects of technology solutions.
- Monitor industry trends to ensure that solutions fit with government and industry directions for technology.
- Provide information, direction and support for emerging technologies.
- Perform impact analysis of technology changes.
- Provide support to applications and/or technical support teams in the proper application of existing infrastructure.
- Review application and program design or technical infrastructure design to ensure adherence to standards and to recommend performance improvements.
- Evaluate capacity planning, backup and restoration procedures for storage capabilities;
- Assist in the development of data disaster recovery plans, as they relate to storage capabilities and continuity;
- Ensure the integration of all aspects of technology solutions;
- Monitor industry trends to ensure that solutions fit with government and industry directions for technology;
- Providing information, direction and support for emerging technologies;
- Performing impact analysis of technology changes;
- Reviewing application and program design or technical infrastructure design to ensure adherence to standards and to recommend performance improvements;
- Oversee policies and procedures to ensure consistent and seamless storage continuity and capabilities; and,
- Other tasks associated with Mobile management, as required.

A.6- Programmer / Software Developer (iOS/Android) - Level 3

Responsibilities could include but are not limited to

- Develop and prepare diagrammatic plans for solution of business, scientific and technical problems by means of computer systems of significant size and complexity
- Analyze the problems outlined by the systems analysts/designers in terms of such factors as style
 and extent of information to be transferred to and from storage units, variety of items to be
 processed, extent of sorting, and format of final printed results
- Select and incorporate available software programs
- Design detailed programs, flow charts, and diagrams indicating mathematical computation and sequence of machine operations necessary to copy and process data and print the results
- Translate detailed flow charts into coded machine instructions and confer with technical personnel in planning programs
- Verify accuracy and completeness of programs by preparing sample data, and testing them by means of system acceptance test runs made by operating personnel
- · Correct program errors by revising instructions or altering the sequence of operations
- Test instructions, and assemble specifications, flow charts, diagrams, layouts, programming and operating instructions to document applications for later modification or reference

The Programmer / Software Developer will be responsible for, but not limited to, the following tasks:

- Develop technical architectures, frameworks and strategies, either for an organization or for a major application area, to meet the business and application requirements.
- Develop and prepare diagrammatic plans for solution of business, scientific and technical problems by means of computer systems of significant size and complexity
- Analyze the problems outlined by the systems analysts/designers in terms of such factors as style
 and extent of information to be transferred to and from storage units, variety of items to be processed,
 extent of sorting, and format of final printed results
- Select and incorporate available software programs
- Design detailed programs, flow charts, and diagrams indicating mathematical computation and sequence of machine operations necessary to copy and process data and print the results

- Translate detailed flow charts into coded machine instructions and confer with technical personnel in planning programs
- Verify accuracy and completeness of programs by preparing sample data, and testing them by means
 of system acceptance test runs made by operating personnel
- Correct program errors by revising instructions or altering the sequence of operations
- Test instructions, and assemble specifications, flow charts, diagrams, layouts, programming and operating instructions to document applications for later modification or reference
- Design or extend the design of mobile applications taking into considerations iOS and Android accessibility platform guidelines in order to correct current accessibility deficiencies and to deliver new business functionality
- Ensure that the mobile applications are adhering to WCAG 2.0 guidelines where applicable
- Develop and upgrade iOS and Android applications based on iOS and Android accessibility platform frameworks, methodologies and API's
- Unit test mobile applications to ensure that applications are compliant with platform accessibility guidelines

A.14 – Web Developer - Level 3

Responsibilities could include but are not limited to

- Develop technical architectures, frameworks and strategies, either for an organization or for a major application area, to meet the business and application requirements
- Identify policies and requirements that drive out a particular solution
- Analyze and evaluate alternative technology solutions to meet business problems
- Ensure the integration of all aspects of technology solutions
- Evaluate hardware and software relative to their ability to support specified requirements and, by determining potential and actual bottlenecks, and improve system performance through recommended hardware changes
- Review computer software systems and data requirements as well as communication and response needs and determine operating systems and languages needed to support them

The Web Developer will be responsible for, but not limited to, the following tasks:

- Develop and prepare diagrammatic plans for web based service delivery over the internet
- Analyze the problems outlined by systems analysts/designers in terms of such factors as style and extent of information to be transferred across the internet
- Select and use the best available web development tools for linking the internet based client to the departmental "back end" information delivery programs and databases
- Design high-usability web pages to meet the requirement
- Verify accuracy and completeness of programs by preparing sample data, and testing them by means
 of system acceptance test runs made by operating personnel
- · Correct program errors by revising instructions or altering the sequence of operations
- Test instructions, and assemble specifications, flow charts, diagrams, layouts, programming and operating instructions to document applications for later modification or reference
- Design or extend the design of web application taking into considerations WCAG 2.1 accessibility guidelines in order to correct current accessibility deficiencies and to deliver new business functionality
- Develop and/or extend web application meet or exceed WCAG 2.1 AAA web standards
- Unit test web applications to ensure that applications are compliant with WCAG 2.1 accessibility guidelines

A.16 - Web Multi Media Content Consultant - Level 3

Responsibilities could include but are not limited to

- Create web pages including multi-media design
- Develop and implement usability tests, analyse results and modify design accordingly
- Develop flowcharts (web site flow maps) depicting navigation and basic content
- Develop line drawings or block diagrams illustrating the priority of information, links, navigation and space requirements
- Develop content diagrams showing the interactive connection between web pages
- Develop interactive prototypes showing basic form and functionality used for both usability testing and presentations

The Web Content Multi Media Consultant will be responsible for, but not limited to, the following tasks:

- Create web pages including multi-media design
- Develop and implement usability tests, analyse results and modify design accordingly
- Develop flowcharts (web site flow maps) depicting navigation and basic content
- Develop line drawings or block diagrams illustrating the priority of information, links, navigation and space requirements
- Develop content diagrams showing the interactive connection between web pages
- Develop interactive prototypes showing basic form and functionality used for both usability testing and presentations

P.11 –Quality Assurance Specialist / Analyst - Level 3

Responsibilities could include but are not limited to:

- Lead development of test plans, test scripts and test data
- Participate in functional and technical design reviews, perform integration/functional and system testing, and verify test results
- Identify and document software defects
- Participate with other project resources to resolve defects
- Perform regression testing of software applications

The Quality Assurance Specialist / Analyst will be responsible for, but not limited to, the following tasks:

- Create web pages including multi-media design
- Lead development of test plans, automated test scripts and test data
- Participate in functional and technical design reviews, perform integration/functional and system testing, and verify test results
- Identify and document software defects
- · Participate with other project resources to resolve defects
- Perform regression testing of software applications

6.0 Deliverables

The Contractor must provide the following deliverables in accordance with validly issued Task Authorizations which include, but are not limited to:

- "Touchless border" target models
- Rapid diagnostic and scope/landscape summaries
- High-level data integration target operating models
- Industry leading practice frameworks and adoption approach roadmaps
- Application Programming Interface(s) (API) strategy to deliver connectivity for ArriveCAN
- Detailed operational work plans and playbooks
- Written and verbal advice:

- Issues papers/Briefing Notes;
- Presentation decks and materials:
- Meeting facilitation and reports (e.g. Monthly Progress Reports);
- Management Action Plans;
- Work plans for specific initiatives;
- Business Cases:
- Business Planning, including risk planning and risk analysis, Risk Management Plans, and Statement of Requirements;
- Tracking against plans including level of effort and resource estimation as part of IM/IT business planning;
- Trend Analyses;
- Fit/Gap Analyses;
- Guides, manuals, reports to be disseminated to various stakeholders as required;
- Meeting agendas, schedules and minutes;
- Synthesis report of facilitated meetings;
- Activity reports;
- Project Management Plans and project documentation such as Project Schedules, Lessons Learned, Progress Reports, Deficiency Reports, Project Forecasts, Road Maps; and Post Project Review Reports; and
- Conversation notes, design documentation, change management documentation, site inspection reports and other Work requested under the Task Authorization.

The level of support versus management services provided by the Contractor's resources for items listed above will vary depending on the needs of the Work.

Deliverables to be submitted in hard and soft copies in the appropriate software formats (e.g. MS Project or MS Office Suite applications as identified by the Technical Authority. All electronic deliverables must comply with departmental software standards, currently MS Office Suite latest version. Where required, the project management team will provide the Contractor with the required forms and templates to meet these standards.

7.0 Client Support

The Client will provide all documentation and information necessary for the Work.

8.0 Work Location

Work locations may vary across the NCR depending on the requirement. The Contractor's resources may be required to work onsite at CBSA site offices or project site locations in the NCR or remotely due to the COVID-19 Pandemic, depending on the Task Authorization issued.

CBSA will provide, in accordance with CBSA security requirements, and only to the specified resource personnel, access to identified databases or applications resident on CBSA computers or networks for the sole purpose of executing tasks associated with this Contract. CBSA, at its sole discretion, will identify the nature and characteristics of such access.

CBSA will provide, in accordance with CBSA security requirements, specified consultants with CBSA issued laptops. All CBSA information and assets must remain resident within Canada.

9.0 Travel

There are no travel and living related expenses associated with this Contract.

10.0 Language of Work

The Work will be performed in English.

11.0 Accessibility

The Government of Canada strives to ensure that the goods and services it procures are inclusive by design and accessible by default, in accordance with the Accessible Canada Act, its associated regulations and standards, and Treasury Board Contracting Policy.

The Work will include development, architecture and integration of CBSA applications including the ArriveCan web and mobile applications to ensure the removal of barriers and provide ease of access in compliance with Bill C-65.

In accordance with Bill C-65 - Accessibility Plans — Regulations Under This Act

Link:

https://lop.parl.ca/sites/PublicWebsite/default/en_CA/ResearchPublications/LegislativeSummaries/421C6 5E#:~:text=Bill%20C%E2%80%9165%2C%20An%20Act%20to%20amend%20the%20Canada,Hajdu%2 C%20Minister%20of%20Employment%2C%20Workforce%20Development%20and%20Labour.

Initial accessibility plan

- 65 (1) A regulated entity referred to in subsection 60(1) must, before the expiry of one year after the day fixed or determined by regulations made under subsection 117(1) that apply to that regulated entity, prepare and publish, in accordance with this Act and regulations made under subsection 117(1), an accessibility plan respecting
- (a) its policies, programs, practices and services in relation to the identification and removal of barriers, and the prevention of new barriers, in
 - (i) the areas referred to in paragraphs 5(a) and (g),
 - (ii) the built environment, other than passenger aircraft, passenger trains, passenger buses, passenger vessels, aerodrome passenger terminals, railway passenger stations, bus passenger stations or marine passenger terminals, and
 - (iii) the area referred to in paragraph 5(c.1) as it relates to the areas referred to in paragraphs 5(a) and (g) and to the built environment referred to in subparagraph (ii); and
- (b) the provisions of regulations made under subsection 117(1) that apply to it.

APPENDIX A TO ANNEX A

TASKING ASSESSMENT PROCEDURE

- 1. Where a requirement for a specific task is identified, a draft Task Authorization Form (TA Form) as attached at Appendix B to Annex A will be provided to the Contractor in accordance with the allocation methodology stated in the Contract Article titled "Allocation of Task Authorizations". Once a draft TA Form is received, the Contractor must submit to the Technical Authority a quotation of rates to supply the requested Resource Categories based on the information identified in the TA Form, as well as its corresponding proposed resource(s). The quotation must be signed and submitted to Canada within the time for response identified in the TA Form. The Contractor will be given a minimum of 2 working days (or any longer time period specified in the draft TA) turnaround time to submit a quotation.
- With each quotation the Contractor must propose the required number of resources and for each proposed resource the Contractor must supply a résumé, the requested security clearance information and must complete the Response Tables at Appendix C of Annex A applicable to the Resource Categories identified in the draft TA. The same individual must not be proposed for more than one Resource Category. The résumés must demonstrate that each proposed individual meets the qualification requirements described (including any educational requirements, work experience requirements, and professional designation or membership requirements). With respect to the proposed resources:
 - (i) Proposed resources may be employees of the Contractor or employees of a subcontractor, or these individuals may be independent contractors to whom the Contractor would subcontract a portion of the Work. (Refer to Appendix D to Annex A, Certifications).
 - (ii) For educational requirements for a particular degree, designation or certificate, Canada will only consider educational programmes that were successfully completed by the resource before the date the draft TA was first issued to the Contractor.
 - (iii) For requirements relating to professional designation or membership, the resource must have the required designation or membership by the time of draft TA issuance and must continue, where applicable, to be a member in good standing of the profession or membership throughout the assessment period and Contract Period. Where the designation or membership must be demonstrated through a certification, diploma or degree, such document must be current, valid and issued by the entity specified in this Contract or if the entity is not specified, the issuer must have been an accredited or otherwise recognized body, institution or entity at the time the document was issued.
 - (iv) For work experience, Canada will not consider experience gained as part of an educational programme, except for experience gained through a formal co-operative programme at a post-secondary institution.
 - (v) For any requirements that specify a particular time period (e.g., 2 years) of work experience, Canada will disregard any information about experience if the résumé does not include the relevant dates (month and year) for the experience claimed (i.e., the start date and end date). Canada will evaluate only the duration that the resource actually worked on a project or projects (from his or her start date to end date), instead of the overall start and end date of a project or a combination of projects in which a resource has participated.
 - (vi) A résumé must not simply indicate the title of the individual's position, but must demonstrate that the resource has the required work experience by explaining the responsibilities and work performed by the individual while in that position. Only listing experience without providing any supporting data to describe responsibilities, duties and relevance to the requirement, or reusing the same wording as the TA Form, will not be considered "demonstrated" for the purposes of the assessment. The Contractor should provide complete details as to where, when, month and year, and how, through which

activities/responsibilities, the stated qualifications / experience were obtained. In situations in which a proposed resource worked at the same time on more than one project, the duration of any overlapping time period will be counted only once toward any requirements that relate to the individual's length of experience.

- 3. The qualifications and experience of the proposed resources will be assessed against the requirements set out in Appendix C to Annex A to determine each proposed resource's compliance with the mandatory and rated criteria. Canada may request proof of successful completion of formal training, as well as reference information. Canada may conduct reference checks to verify the accuracy of the information provided. If reference checks are done, they will be conducted in writing by e-mail (unless the contact at the reference is only available by telephone). Canada will not assess any points or consider a mandatory criterion met unless the response is received within 5 working days. On the third working day after sending out the emails, if Canada has not received a response. Canada will notify the Contractor by e-mail, to allow the Contractor to contact its reference directly to ensure that it responds to Canada within 5 working days. Wherever information provided by a reference differs from the information supplied by the Contractor, the information supplied by the reference will be the information assessed. Points will not be allocated or a mandatory criteria considered as met if the reference customer is not a customer of the Contractor itself (for example, the customer cannot be the customer of an affiliate of the Contractor). Nor will points be allocated or a mandatory criteria considered as met if the customer is itself an affiliate or other entity that does not deal at arm's length with the Contractor Crown references will be accepted.
- 4. During the assessment of the resources proposed, should the references for two or more resources required under that TA either be unavailable or fail to substantiate the required qualifications of the proposed resources to perform the required services, the Contractor's quotation may be found to be non-responsive.
- Only quotations that meet all of the mandatory criteria will be considered for assessment of the point rated criteria. Each resource proposed must attain the required minimum score for the point rated criteria for the applicable Resource Category. If the minimum score for any proposed resource is less than what is required, the Contractor's quotation will be found to be non-responsive.
- 6. Once the quotation has been accepted by the Technical Authority, the TA Form will be signed by Canada and provided to the Contractor for signature. The TA Form must be appropriately signed by Canada prior to commencement of any work. The Contractor must not commence work until a validly issued TA Form (the Task Authorization) has been received, and any work performed in its absence is done at the Contractor's own risk.

APPENDIX B TO ANNEX A TASK AUTHORIZATION FORM

TASK AUTHORIZATION (TA) FORM			
Contractor:		Contract No.	
Task Authorization No.:	(Amendment #):	Date:	
Financial coding:		Commitment #:	
	((WORK ACTIVITIES, CERTIF	ICATIONS AND DELIVE	ERABLES)
BACKGROUND			
TASKS			
DELIVERABLES			
RESOURCE ESSE	NTIAL TECHNOLOGY RE	QUIREMENT(S)	
() (To be identified () (To be identified	•		
() (To be identified	· · · · · · · · · · · · · · · · · · ·		
() (To be identified			
() (To be identified	in TA)		
Technical Authority: Email:			
management of this and the Contracting A outside the scope of t	rity is the CBSA Representation of the TA manages to the TA based on verbal or written aforementioned officer.	ust be authorized in was Contractor is not to	riting by the Technical Authority perform work in excess of or
PLEASE SEND INV	OICES TO:		
The Technical\Autho Email:	ority:		
content of the Work the Technical Author		changes to the scope of sonly effective and er	
2. PERIOD OF	FROM (DATE):		To (DATE):
SERVICES: 3. WORK LOCATION:			
J. Word Edenion			

4. TRAVEL					
REQUIREMENTS:					
5. LANGUAGE					
REQUIREMENTS:					
6. LEVEL OF SECURITY					
CLEARANCE					
REQUIRED					
7. Cost					
CATEGORY	Name of Ri	ESOURCE	PER DIEM RATE	ESTIMATED # OF DAYS	TOTAL COST
					\$
				ESTIMATED COST	\$
				APPLICABLE TAX	\$
				Sub Total	\$
				L & LIVING COST	\$
			<u>, </u>	APPLICABLE TAX)	
		FIRM PI	RICE OR MAXI	MUM TA PRICE	\$
8 SIGNATURES					
Technical Authority:		Signature:			Date:
1 comment ruenority.		Signature			Dute.
		On File			
Contracting Authority:		Signature:			Date:
Check Either Option					
The Contractor here	by accepts this ta	sk authorizat	tion		
	- y _F				
The Contractor does	not accept this ta	sk authorizat	tion		
Name of Contractor aut sign (type or print):	thorized to	Title of Co or print):	ntractor authori	zed to sign (type	Date:
		1			
Signature:					

APPENDIX C TO ANNEX A- REVISED - January 19, 2022 RESOURCES ASSESSMENT CRITERIA AND RESPONSE TABLE

APPLICATION AND DATA SERVICES - LEVEL 3 (WS3284483925)

To facilitate resource assessment, Contractors must prepare and submit a response to a draft Task Authorization using the tables provided in this Annex. When completing the resource grids, the specific information which demonstrates the requested criteria and reference to the page number of the résumé should be incorporated so that Canada can verify this information. The tables should not contain all the project information from the resume. Only the specific answer should be provided.

Resource Category: A.1–Application/Software Architect – Level 3

Name of Proposed Resource:

Item	Mandatory Technical Criteria	Met	Not Met	Cross Reference to the Proposal
MT1.1	The Contractor MUST demonstrate that the proposed resource has a minimum of ten (10) years' experience* within the last fifteen (15) years performing all of the following tasks: • Developing technical architectures, frameworks and strategies, to meet the business and application requirements; • Analyzing and evaluating alternative technology solutions to meet business problems; • Ensuring the integration of all aspects of technology solutions; • Evaluating existing procedures and methods, identifying and documenting database content, structure, and application sub-systems, and developing data dictionary; • Defining and documenting interfaces of manual to automated operations within application subsystems, to external systems and between new and existing systems; and • Defining input/output sources, including detailed plan for technical design phase, and obtaining approval of the system proposal. Note: To qualify, a project must have a minimum duration of six (6) months. To demonstrate compliance with all criteria, the Contractor must include the following information: • Project name; • Client organization; • Project description; • Description of role and tasks performed by the resource. • Client contact reference – email/phone number, role of the reference, how did the reference manage the contract in order to confirm?			
MT1.2	The Contractor MUST demonstrate that the proposed resource has a minimum of five (5) years' experience within the last ten (10) years performing all of the following tasks within a public cloud environment: • Creating the conceptual, logical and physical designs for application architectures and their interoperability; • Researching, analyzing, recommending and selecting technical approaches to address challenging development and integration problems with application architectures; and • Developing implementation plans for the deployment of application architectures. Note: To qualify, a project must have a minimum duration of six			

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MT1.3	 (6) months. To demonstrate compliance with all criteria, the Contractor must include the following information: Project name; Client organization; Project start /end dates and duration; Project description; Description of role and tasks performed by the resource. Client contact reference – email/phone number, role of the reference, how did the reference manage the contract in order to confirm? The Contractor MUST demonstrate that the proposed resource has a minimum of five (5) years' experience within 			
	the last eight (8) years designing and implementing cloud solutions employing ALL of the following cloud technologies and services: • Elastic Computing			
	Cloud storage and backupAutomation			
	 Network Virtual Appliances (Firewalls) Application gateways and load balancing Database-as-a-Service 			
	 Identity, Credential and Access Management Note: To qualify, a project must have a minimum duration of six (6) months To demonstrate compliance with all criteria, the Contractor must include the following information: 			
	 Project name; Client organization; Project start /end dates and duration; 			
	 Project description; Description of role and tasks performed by the resource Client contact reference – email/phone number, role of the reference, how did the reference manage the contract in order to confirm? 			
MT1.4	The Contractor MUST demonstrate that the proposed resource has a minimum of one (1) year experience designing and implementing cloud solutions for a *public sector organization.			
	*Public sector is defined as a municipal/provincial/territorial or federal Government within Canada.			
	Note: To qualify, a project must have a minimum duration of six (6) months.			
	To demonstrate compliance with all criteria, the Contractor must include the following information:			
	 Project name; Client organization; Project start /end dates and duration; Project description; 			
	 Description of role and tasks performed by the resource Client contact reference – email/phone number, role of the reference, how did the reference manage the 			

	contract in order to confirm?		
MT1.5	The Contractor MUST demonstrate that the proposed resource has: One of the following certifications applicable to Infrastructure as a Service (laaS) platforms from one or more Leaders in the Gartner 2019 Magic Quadrant for laaS Cloud (i.e. AWS, Azure, or Google): • Azure Solutions Architect Expert • Amazon Solutions Architect Associate • Professional Cloud Architect (GCP)		
	A copy of the certificate(s) must be provided.		

Resource (Category: I.10 – Technical Architect Mobile – Level 3			
Name of Pr	oposed Resource:			
Item	Mandatory Requirement	Met	Not Met	Cross Reference to the Proposal
MT2.1	The Contractor MUST demonstrate that the proposed resource has a minimum of eight (8) years' experience developing mobile application working with MS Azure or AWS.			
	To demonstrate compliance with all criteria, the Contractor must include the following information:			
	Project name;			
	Client organization;			
	Project start /end dates and duration;			
	Project description;			
	Description of role and tasks performed by the resource			
	 Client contact reference – email/phone number, role of the reference, how did the reference manage the contract in order to confirm? 			
MT2.2	The Contractor MUST demonstrate that the proposed resource			
	has a minimum of ten(10) years' experience performing all of the following tasks within a public cloud environment from the date of The Task Authorization request:			
	 Creating the conceptual, logical and physical 			

designs for mobile application architectures and their interoperability; Researching, analyzing, recommending and selecting technical approaches to address challenging development and integration problems with application architectures; and Developing implementation plans for the deployment of mobile application architectures. To demonstrate compliance with all criteria, the Contractor must include the following information: Project name; Client organization; Project description; Project description; Description of role and tasks performed by the resource Client contact reference – email/phone number, role of the reference, how did the reference manage the contract in order to confirm?
The Contractor MUST demonstrate that the proposed resource has a minimum of one (1) year of experience designing and implementing a minimum of three (3) mobile solutions for a Government of Canada Client on either MS Azure or AWS and at least one at the Accessibility level of AA WCAG 2.1 from the date of The Task Authorization request. To demonstrate compliance with all criteria, the Contractor must include the following information: Project name; Client organization; Project description; Project description; Client contact reference – email/phone number, role of the reference, how did the reference manage the contract in order to confirm?

MT2.4	The Contractor MUST demonstrate that the proposed resource has a minimum of ten (10) years of experience developing mobile solutions integrated with location based services from the date of The Task Authorization request. To demonstrate compliance with all criteria, the Contractor must include the following information: Project name; Client organization;		
	Project start /end dates and duration;		
	Project description;		
	Description of role and tasks performed by the resource		
	 Client contact reference – email/phone number, role of the reference, how did the reference manage the contract in order to confirm? 		
MT2.5	The Contractor MUST demonstrate that the proposed resource has a minimum of ten (10) years of experience developing mobile applications meeting top security standards, such as OWASP from the date of The Task Authorization request.		
	To demonstrate compliance with all criteria, the Contractor must include the following information:		
	Project name;		
	Client organization;		
	Project start /end dates and duration;		
	Project description;		
	Description of role and tasks performed by the resource		
	 Client contact reference – email/phone number, role of the reference, how did the reference manage the contract in order to confirm? 		

Resource C	Category: I.5 – IM Architect – Data/AI – Level 3					
Name of Pr	Name of Proposed Resource:					
			NI - 4	Out - Defended to		
Item	Mandatory Requirement	Met	Not Met	Cross Reference to the Proposal		
MT3.1	The Contractor MUST demonstrate that the proposed resource has a minimum of five (5) years' experience within the last ten (10) years performing all of the following tasks and responsibilities: • Using methodologies from Machine Learning, Deep Learning and Artificial Intelligence; • Applying Machine Learning using diverse types of data, diverse data sources and different types of learning models; • Developing queries to isolate data with high value within a Data Warehouse, Data Mart or Data Lake; • Performing exploratory data analysis, rapid prototyping and presenting creative ideas to exploit data to drive deeper insights and business value; • Providing proactive data analysis of large structured and unstructured datasets involving a wide range of systems across multiple disparate data sets; and • Developing data analytic and visualization plans to support high-quality, fact-based business decisions. Note: To qualify, a project must have a minimum duration of six (6) months To demonstrate compliance with all criteria, the Contractor must include the following information: • Project name; • Client organization; • Project description; • Description of role and tasks performed by the resource • Client contact reference – email/phone number, role of the reference, how did the reference manage the contract in order to confirm?					
MT3.2	The Contractor MUST demonstrate that the proposed resource					
	has a minimum of five (5) years' experience within the last ten (10) years performing a minimum of five (5) of the following tasks and activities:					
	 Working with scalable data platforms such as; 					

	Power BI, Hadoop, Spark, Redshift, NoSQL		
	(dynamoDB / MongoDB);		
	Building the tools and supporting data structures		
	needed to analyze data and perform data		
	cleaning activities;		
	 Determining problematic issues with data and 		
	proposing feasible resolutions;		
	 Organizing, mapping, analyzing numerous data 		
	sets to incorporate them into one centralized		
	data repository;		
	Performing exploration of data, including analysis,		
	mining of correlations and result verification;		
	Developing and deploying solutions that		
	addressed data aggregation challenges, including		
	data being distributed across numerous		
	databases or sources; and		
	Developing and implementing strategies		
	for data enrichment.		
	Note: To qualify, a project must have a minimum duration of six		
	(6) months		
	To demonstrate compliance with all criteria, the Contractor must		
	include the following information:		
	Project name;		
	Client organization;		
	Project start /end dates and duration;		
	Project description;		
	Description of role and tools a referenced by the recovery		
	Description of role and tasks performed by the resource		
	Client contact reference – email/phone number, role of		
	the reference, how did the reference manage the		
	contract in order to confirm?		
MT3.3	The Contractor MUST demonstrate that the proposed resource		
	has a minimum of three (3) years' experience within the last		
	five (5) years from the date of The Task Authorization request		
	performing a minimum of three (3) of the following tasks and		
	activities:		
	Identifying opportunities for automation, knowledge		
	discovery, decision-making, insights, optimization,		
	and new capabilities;		
	Developing frameworks and best practices for analytic adjutions at different meturity levels.		
	analytic solutions at different maturity levels;		
	Preparing documentation, reports, and presentations that explain advanced applytics concepts, technology.		
	that explain advanced analytics concepts, technology,		
	and inner workings of solutions to broader teams, including non-technical audiences; and		
	indiading non-todiffical addictioes, and	1	1

	Project name;Client organization;
	Project start /end dates and duration;
	Project description;
	Description of role and tasks performed by the resource
	Client contact reference – email/phone number, role of the reference, how did the reference manage the contract in order to confirm?
MT3.4	The Contractor MUST demonstrate the proposed resource holds:
	A Masters' degree in a quantitative discipline such as applied mathematics, computer science, data science, statistics or econometrics,
	OR
	An equivalent <i>Canadian academic credential assessment</i> , if obtained outside Canada.
	The Contractor must include a copy of the degree(s).

	Resource Category: I.10 – Technical Architect – Level 3 Name of Proposed Resource:			
Item	Mandatory Requirement	Met	Not Met	Cross Reference to the Proposal
MT4.1	The Contractor MUST demonstrate that the Proposed Resource has a minimum of ten (10) years' experience within the last fifteen (15) years working on <i>Enterprise-class</i> IT systems performing a minimum of six of the following tasks:			
	Gathering and documenting business requirements;Developing Systems Architecture;			

	Developing Logical and Physical cloud models;	
	Developing and Implementing architectural	
	strategies and plans;	
	Contributing to overall project plans, testing	
	strategies, security and infrastructure design;	
	Developing processes to enable the migration of	
	data or workloads from source to destination	
	systems;	
	Contributing expertise and resolving Issues related to explicational shallongers and	
	related to architectural challenges; and Reporting on progress to management using	
	standard approaches and visualization (charts,	
	etc.).	
	Note: To qualify, a project must have a minimum duration of	
	six (6) months	
	To demonstrate compliance with all criteria, the Contractor must	
	include the following information:	
	Project name;	
	Client organization;	
	Project start /end dates and duration;	
	Project description;	
	Description of role and tasks performed by the resource	
	Client contact reference – email/phone number, role of	
	the reference, how did the reference manage the	
	contract in order to confirm?	
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MT4.2	The Contractor MUST demonstrate that the proposed resource	
	has a minimum of five (5) years' experience within the last eight (8) years designing and architecting infrastructure	
	services or applications leveraging a minimum of five of the	
	following cloud technologies:	
	Elastic Computing	
	Cloud storage and backup	
	Networking (Firewalls, User Defined Routing)	
	Application gateways and load balancing	
	Database or DataWarehouse-as-a-Service	
	Identity, Credential and Access Management Note: To qualify a project must be use a minimum direction of air.	
	Note: To qualify, a project must have a minimum duration of six	
	(6) months	
	To domonatrate compliance with all evitorie the Contractor	
	To demonstrate compliance with all criteria, the Contractor must	
	include the following information:	
	Drainet name	
	Project name;	

	Client organization;		
	Project start /end dates and duration;		
	Project description;		
	Description of role and tasks performed by the resource		
	Client contact reference — email/phone number, role of the reference, how did the reference manage the contract in order to confirm?		
MT4.3	The Contractor MUST demonstrate that the proposed resource has a minimum of eighteen (18) months' experience in the last five (5) years from the date of The Task Authorization request architecting and executing a solution to migrate an existing <i>Enterprise-class</i> secure* application or service to the cloud.		
	*Secure is defined as meeting one of the following security control profiles:		
	o the GovernmentofCanadaProtectedBMedium integrityMediumavailability(PBMM).		
	o <u>FEDRAMP</u> Moderate or High Level		
	o <u>ISO27001</u> , <u>ISO27017</u> and <u>ISO27018</u>		
	Note: To qualify, a project must have a minimum duration of six (6) months		
	To demonstrate compliance with all criteria, the Contractor must include the following information:		
	Project name;		
	Client organization;		
	Project start /end dates and duration;		
	Project description;		
	Description of role and tasks performed by the resource		
	Client contact reference — email/phone number, role of the reference, how did the reference manage the contract in order to confirm?		
MT4.4	The Contractor MUST demonstrate that the proposed resource has a minimum of two (2) years' experience within the last ten (10) years from the date of The Task Authorization request, designing, developing (coding), testing, implementing and supporting application solutions.		

	To demonstrate compliance with all criteria, the Contractor must include the following information:
	Project name;
	Client organization;
	Project start /end dates and duration;
	Project description;
	Description of role and tasks performed by the resource
	Client contact reference – email/phone number, role of the reference, how did the reference manage the contract in order to confirm?
MT4.5	The Contractor MUST demonstrate that the proposed resource has:
	One of the following certifications applicable to Infrastructure as a Service (laaS) platforms from one or more Leaders in the Gartner 2019 Magic Quadrant for laaS Cloud (i.e. AWS, Azure, or Google):
	 Azure Solutions Architect Expert Amazon Solutions Architect Associate Professional Cloud Architect (GCP) A copy of the certificate(s) must be provided with the bid.

	Resource Category: A.16 – Web Multi Media Content Consultant – Level 3 Name of Proposed Resource:			
Item	Mandatory Requirement	Met	Not Met	Cross Reference to the Proposal
MT5.1	The Contractor must <u>demonstrate</u> that the proposed resource has a minimum of ten (10) years of demonstrated experience within the last twelve (12) years (as of The Task Authorization request) working as a UX design consultant within *Large organizations tasked with the following; • Conceptualizing and defining a strategy to adopt user centered design principles for a project or product development.			

	Developing innovative and practical user-centric design solutions.
	Identifying tangible benefits to "sell" user experience designs to clients.
	*Large organizations defined as Private or Public Sector and having 500 or more employees.
	To demonstrate compliance with all criteria, the Contractor must include the following information:
	Project name;
	Client organization;
	Project start /end dates and duration;
	Project description;
	Description of role and tasks performed by the resource
	Client contact reference – email/phone number, role of the reference, how did the reference manage the contract in order to confirm?
MT5.2	The Contractor must <u>demonstrate</u> that the proposed resource has a minimum of eight (8) years of demonstrated experience within the last ten (10) years (as of The Task Authorization request) working as a UX design consultant within *Large organizations tasked with <u>all</u> the following;
	Planning and Leading user centered design research activities (e.g User Interviews, usability testing, user observation, surveys), conducting evaluations or usability reviews and providing recommendations for improvising applications or websites.
	Presenting and discussing user centered design findings and recommendations with project stakeholders and technical teams.
	Incorporating Web Content Accessibility Guidelines (WCAG) into application designs and or Canada.ca templates.
	Taking user research insights or business requirements and building product designs to meet business requirements, wireframes and static or interactive prototypes.

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	*Large organizations defined as Private or Public Sector and having 500 or more employees		
	To demonstrate compliance with all criteria, the Contractor must include the following information:		
	Project name;		
	Client organization;		
	Project start /end dates and duration;		
	Project description;		
	Description of role and tasks performed by the resource		
	Client contact reference – email/phone number, role of the reference, how did the reference manage the contract in order to confirm?		
MT5.3	The Contractor must <u>demonstrate</u> that the proposed resource has a minimum of eight (8) years of demonstrated experience within the last ten (10) years (as of The Task Authorization request) working as a UX design consultant within *Large organizations tasked with all the following;		
	Analyzing and determining business rules, design interactions and flows.		
	Gathering and documenting user requirements (use cases or user stories)		
	Translating requirements into features and functionality for the organizations various platforms.		
	*Large organizations defined as Private or Public Sector and having 500 or more employees.		
	To demonstrate compliance with all criteria, the Contractor must include the following information:		
	Project name;		
	Client organization;		
	Project start /end dates and duration;		
	Project description;		
	Description of role and tasks performed by the resource		
			<u> </u>

	Client contact reference – email/phone number, role of the reference, how did the reference manage the contract in order to confirm?	
MT5.4	The Contractor must <u>demonstrate</u> that the proposed resource has a minimum of eight (8) years of demonstrated experience within the last ten (10) years (as of The Task Authorization request) working as a UX design consultant within *Large organizations tasked with all the following:	
	 Designing UX implementations that matured and improved the user experience when interacting with the organizations interfaces. 	
	Designing web user interfaces that used multi-page forms.	
	*Large organizations defined as Private or Public Sector and having 500 or more employees.	
	To demonstrate compliance with all criteria, the Contractor must include the following information:	
	Project name;	
	Client organization;	
	Project start /end dates and duration;	
	Project description;	
	Description of role and tasks performed by the resource	
	Client contact reference – email/phone number, role of the reference, how did the reference manage the contract in order to confirm?	

	Resource Category: A.6- Programmer/Software Developer (iOS/Android) – Level 3 Name of Proposed Resource:			
Item	Mandatory Requirement	Met	Not Met	Cross Reference to the Proposal
MT6.1	The Contractor MUST demonstrate that the Proposed Resource has a minimum of five (5) years' experience within the last ten (10) years from date of The Task Authorization request, designing, developing, testing and deploying code and software for a mobile application on the public cloud. Note: To qualify, a project must have a minimum duration of six			

	(6) months.
	To demonstrate compliance with all criteria, the Contractor must include the following information:
	Project name;
	Client organization;
	Project start /end dates and duration;
	Project description;
	Description of role and tasks performed by the resource
	Client contact reference – email/phone number, role of the reference, how did the reference manage the contract in order to confirm?
MT6.2	The Contractor MUST demonstrate that the Proposed Resource has a minimum of seven (10) years' experience within the last ten (10) years designing, developing and implementing mobile-based applications for two of the platforms below
	 iOS Android Blackberry Note: To qualify, a project must have a minimum duration of six (6) months.
	To demonstrate compliance with all criteria, the Contractor must include the following information:
	Project name;
	Client organization;
	Project start /end dates and duration;
	Project description;
	Description of role and tasks performed by the resource
	Client contact reference – email/phone number, role of the reference, how did the reference manage the contract in order to confirm?
MT6.3	The Contractor MUST demonstrate that the proposed resource has a minimum of two (2) years' experience within the last five (5) years' <i>refactoring</i> and deploying <i>Enterprise-class</i> solutions.

	Note: To qualify, a project must have a minimum duration of six (6) months.		
	To demonstrate compliance with all criteria, the Contractor must include the following information:		
	Project name;		
	Client organization;		
	 Project start /end dates and duration; 		
	Project description;		
	Description of role and tasks performed by the resource		
	 Client contact reference – email/phone number, role of the reference, how did the reference manage the contract in order to confirm? 		
MT6.4	The Contractor MUST demonstrate that the proposed resource has a minimum of twelve (12) months experience within the last five (5) years, coding, testing and implementing solutions involving:		
	 Biometric security models and multi-factor authentication, secure enclave processing; Mobile device-based multi factor authentication; and 		
	 Cloud-based identity access management. Note: To qualify, a project must have a minimum duration of six (6) months. The experience can be demonstrated in various combinations across different projects, however the minimum experience must be demonstrated for EACH one of the three bullets above. 		
	To demonstrate compliance with all criteria, the Contractor must include the following information:		
	Project name;		
	Client organization;		
	 Project start /end dates and duration; 		
	Project description;		
	Description of role and tasks performed by the resource		
	 Client contact reference – email/phone number, role of the reference, how did the reference manage the contract in order to confirm? 		

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MT6.5	The Contractor MUST demonstrate that the proposed resource has a minimum 5 years+ experience of developing mobile applications working with AWS or Azure clouds.
	Note: To qualify, a project must have a minimum duration of six (6) months.
	To demonstrate compliance with all criteria, the Contractor must include the following information:
	Project name;
	Client organization;
	Project start /end dates and duration;
	Project description;
	Description of role and tasks performed by the resource
	Client contact reference – email/phone number, role of the reference, how did the reference manage the contract in order to confirm?
MT6.6	The Contractor MUST demonstrate that the proposed resource has a minimum of more than 1 year of experience developing 3 or more mobile applications for the Government of Canada.
	More than 1 year experience developing Government mobile application integrated with public cloud services such as AWS or Azure
	Led development of Government mobile application with more than 1 million users
	Led development of Government mobile application with AA mobile accessibility
	Note: To qualify, a project must have a minimum duration of six (6) months.
	To demonstrate compliance with all criteria, the Contractor must include the following information:
	Project name;
	Client organization;
	Project start /end dates and duration;
	Project description;

Description of role and tasks performed by the resource		
Client contact reference – email/phone number, role of the reference, how did the reference manage the contract in order to confirm?		

Resource Category: A.14 - Web Developer - Level 3

Name of Proposed Resource:						
Item	Mandatory Requirement	Met	Not Met	Cross Reference to the Proposal		
MT7.1	The Contractor must demonstrate that the proposed resource has ten plus (10+) years of demonstrated Web Developer experience tasked with the following responsibilities:					
	a) Analysis, design b) Coding, testing c) Implementation d) Support of web applications.					
	Note: A qualifying project will have a minimum duration of six (6) months.					
	To demonstrate compliance with all criteria, the Contractor must include the following information:					
	 Project name; Client organization; Project start /end dates and duration; Project description; Description of role and tasks performed by the resource. Client contact reference – email/phone number, role of the reference, how did the reference manage the contract in order to confirm? 					
MT7.2	The Contractor must demonstrate that the proposed resource has a minimum of five (5) years' experience within the last ten (10) years developing web applications using the following development products: a) Angular JS b) GitHub					
	c) JQuery d) Sass					
	Note: A qualifying project will have a minimum duration of six (6) months.					
	To demonstrate compliance with all criteria, the Contractor must include the following information:					
	Project name;Client organization;Project start /end dates and duration;					

		1	T
	 Project description; Description of role and tasks performed by the resource. Client contact reference – email/phone number, role of the reference, how did the reference manage the contract in order to confirm? 		
MT7.3	The Contractor must demonstrate that the proposed resource has a minimum of five (5) years' experience (within the last 10 years) using the following client/server-side technologies;		
	a) HTML b) CSS c) JavaScript libraries/frameworks d) AJAX		
	Note: A qualifying project will have a minimum duration of six (6) months.		
	To demonstrate compliance with all criteria, the Contractor must include the following information:		
	 Project name; Client organization; Project start /end dates and duration; Project description; Description of role and tasks performed by the resource. Client contact reference – email/phone number, role of the reference, how did the reference manage the contract in order to confirm? 		
MT7.4	The Contractor must demonstrate that the proposed resource has a minimum of five (5) years' experience (within the last 10 years) using either Microsoft SQL Server (2016 minimum) or IBM Db2 tasked with the following;		
	 a) Developing and maintaining scripts/code including queries, stored procedures, triggers and user functions. b) Relational database design, normalization, data manipulation and control. Note: A qualifying project must have a minimum duration of six (6) months. 		
	To demonstrate compliance with all criteria, the Contractor must include the following information:		
	 Project name; Client organization; Project start /end dates and duration; Project description; Description of role and tasks performed by the resource. Client contact reference – email/phone number, role of the reference, how did the reference manage the contract in order to confirm? 		
MT7.5	The Contractor must demonstrate that the proposed resource has worked on at least two (2) relevant Provincial or Federal Government* web application projects' consulting assignments within the last five (5) years.		

Each project must have a continuous (full time equivalent) work effort duration of six (6) months or greater and have a complimentary mobile application.
*Government refers to federal or provincial level government within Canada
Note: A qualifying project must have a minimum duration of six (6) months.
To demonstrate compliance with all criteria, the Contractor must include the following information:
 Project name; Client organization; Project start /end dates and duration; Project description; Description of role and tasks performed by the resource. Client contact reference – email/phone number, role of the reference, how did the reference manage the contract in order to confirm?.

Resource	Category P.11 Quality Assurance Specialist – Level 3			
Name of P	roposed Resource:		T	
Item	Mandatory Requirement	Met	Not Met	Cross Reference to the Proposal
MT8.1	The proposed resource must have a minimum of (2) years professional work experience within the last five (5) years on a large (Over 10 million Dollars) IM/IT Project to implement new legislative change for a Canadian and International Trademarks Legacy system performing all of the following; - Conducting testing reviews and summarizing testing results - Defining, building and managing test environments Developing test strategies and plans - Leading Scum Meetings - Perform formal reviews of business requirements Note: A qualifying project will have a minimum duration of six (6) months. To demonstrate compliance with all criteria, the Contractor must include the following information: - Project name; - Client organization; - Project description; - Project description; - Description of role and tasks performed by the resource Client contact reference — email/phone number, role of			

	the reference, how did the reference manage the contract in order to confirm?		
MT8.2	The Contractor must provide two (2) relevant Federal Government of Canada (including crown corporations and agencies) IT client references within the last ten (10) years where the proposed resource has worked as a Project Leader/Team Lead on Government of Canada (GoC) IT application development projects.		
	Projects must have a minimum work effort duration of six (6) months or greater.		
	Note: Each reference cited must be for a separate client organization. The client contact reference name cited must be a Government of Canada employee overseeing the output of the Work of the proposed resource.		
	Note: A qualifying project must have a minimum duration of six (6) months.		
	To demonstrate compliance with all criteria, the Contractor must include the following information:		
	 Project name; Client organization; Project start /end dates and duration; Project description; Description of role and tasks performed by the resource. Client contact reference – email/phone number, role of the reference, how did the reference manage the contract in order to confirm? 		
MT8.3	Contractor proposed resources must have a minimum of five (5) years' experience, within the last ten (10) years, performing 3 of the 5 below tasks in a IT application project:		
	 Demonstrated professional applications development work experience applying software development methodologies such as Agile, Waterfall. Briefing senior management (Director level and/or above) Coordinating functional and regression testing Managing projects with multiple stakeholders Leading and overseeing all user acceptance software 		
	testing requirements including, functional test in-line with requirements specification, and regression testing for specified iterations;		
	Note: A qualifying project must have a minimum duration of six (6) months.		

To demonstrate compliance with all criteria, the Contractor must include the following information:		
 Project name; Client organization; Project start /end dates and duration; Project description; Description of role and tasks performed by the resource. Client contact reference – email/phone number, role of the reference, how did the reference manage the contract in order to confirm? 		

Resour	ce Category: A.1 –Application/Software	Architect	t – Level 3	
Name o	f Proposed Resource:			
#	Point-Rated Requirement	Points Max	Points Grid	Demonstrated Experience Cross-reference to Proposal/Project# /Resume
RT1.1	The Contractor should demonstrate that the proposed resource has:	10	No Degree/Diploma = 0 points	
	A university degree or post- secondary diploma in Computer Science or a related		Degree/Diploma = 10 points	
	field in Information Technology, obtained through a recognized Canadian university or college;		Maximum 10 points	
	OR			
	An equivalent Canadian academic credential assessment , if obtained outside Canada.			
	A copy of the university degree, college diploma or academic credential assessment must be included with the Contractor's response to the TA. The copy provided by the supplier must be a readable copy in English or French.			
RT1.2	The Contractor should demonstrate that the proposed resource has experience in excess of the minimum five (5) years within the last ten (10) years mandatory requirement in MT1.4 performing the following tasks within a public cloud environment: • Creating the conceptual, logical and physical designs	20	5+ years up to 6 years = 5 points 6+ years up to 7 years = 10 points 7+ years up to 8 years = 15 points	
	for application architectures and their interoperability; Researching, analyzing,		More than 8 years = 20 points Maximum 20 points	

recommending and selecting technical approaches to address challenging development and integration problems with application architectures; and Developing implementation plans for the deployment of application architectures Note: A qualifying project must have a minimum duration of six (6) months. To demonstrate compliance with all criteria, the Contractor should include the following information: Project name; Client organization; Project start /end dates and duration; Project description;				
Description of role and tasks performed by the resource Client contact reference — email/phone number, role of the reference, how did the reference manage the contract in order to confirm? RT1.3 The Contractor should demonstrate that the proposed resource has experience within the last twelve (12) years as an Application/Software Architect performing the following three (3) activities: Developing deployment strategies for architectures in the cloud that included secure remote access such as VPN gateways (client to gateway, gateway to gateway); Developing deployment strategies for cloud architectures that included private (on-premise) networks for the storage and processing of more sensitive data; Developing deployment strategies for architectures of re-usable environments designed to test new data or application operati • Client to reference — email/phone that the reference manage that the reference manage the reference manage the reference manage that the reference	technical approaches to address challenging development and integration problems with application architectures; and Developing implementation plans for the deployment of application architectures Note: A qualifying project must have a minimum duration of six (6) months. To demonstrate compliance with all criteria, the Contractor should include the following information: Project name; Client organization; Project description; Project description; Project description; Description of role and tasks performed by the resource Client contact reference — email/phone number, role of the reference, how did the reference within the last twelve (12) years as an Application/Software Architect performing the following three (3) activities: Developing deployment strategies for architectures in the cloud that included secure remote access such as VPN gateways (client to gateway, gateway to gateway); Developing deployment strategies for cloud architectures that included private (on-premise) networks for the storage and processing of more sensitive data; Developing deployment strategies for architectures of re-usable environments designed to test new data or application operati ons without affecting production usage. To demonstrate compliance with all criteria, the Contractor must include the following information: Project name;	15	Less than 1 year = 0 points 1 year up to 3 years = 2 points 3+ years up to 5 years = 4 points More than 5 years = 5 points	
I allocated up to a	To demonstrate compliance with all criteria, the Contractor must include the following information: Project name; Client organization;		maximum of 5 points. Therefore the total points available for this criteria is 15 points for the 3	
RT1.3		technical approaches to address challenging development and integration problems with application architectures; and Developing implementation plans for the deployment of application architectures Note: A qualifying project must have a minimum duration of six (6) months. To demonstrate compliance with all criteria, the Contractor should include the following information: Project name; Client organization; Project description; Project description; Project description; Description of role and tasks performed by the resource Client contact reference — email/phone number, role of the reference, how did the reference manage the contract in order to confirm? The Contractor should demonstrate that the proposed resource has experience within the last twelve (12) years as an Application/Software Architect performing the following three (3) activities: Developing deployment strategies for architectures in the cloud that included secure remote access such as VPN gateways (client to gateway, gateway) to gateway); Developing deployment strategies for cloud architectures that included private (on-premise) networks for the storage and processing of more sensitive data; Developing deployment strategies for architectures of re-usable environments designed to test new data or application operati ons without affecting production usage. To demonstrate compliance with all criteria, the Contractor must include the following information: Project name;	technical approaches to address challenging development and integration problems with application architectures; and Developing implementation plans for the deployment of application architectures. Note: A qualifying project must have a minimum duration of six (6) months. To demonstrate compliance with all criteria, the Contractor should include the following information: Project name; Client organization; Project description; Project description; Project description; Project description; Project description; Project description; Project description of role and tasks performed by the resource Client contact reference – email/phone number, role of the reference, how did the reference manage the contract in order to confirm? The Contractor should demonstrate that the proposed resource has experience within the last twelve (12) years as an Application/Software Architect performing the following three (3) activities: Developing deployment strategies for architectures in the cloud that included secure remote access such as VPN gateways (client to gateway, gateway to gateway); Developing deployment strategies for cloud architectures that included private (on-premise) networks for the storage and processing of more sensitive data; Developing deployment strategies for architectures of re-usable environments designed to test new data or application operati ons without affecting production usage. To demonstrate compliance with all criteria, the Contractor must include the following information: Project name; Client organization; Project start /end dates and	technical approaches to address challenging development and integration problems with application architectures; and Developing implementation plans for the deployment of application architectures. Note: A qualifying project must have a minimum duration of six (6) months. To demonstrate compliance with all criteria, the Contractor should include the following information: Project start /end dates and duration; Project description; Project desc

	 Project description; Description of role and tasks performed by the resource 			
	Client contact reference – email/phone number, role of the reference, how did the reference			
	manage the contract in order to confirm?			
	that the proposed resource has experience within the last twelve (12) years as an Application / Software Architect performing the following four (4) activities: • Incorporating serverless code in application architectures; • Designing scaling sets of virtual machines to keep costs low while still providing acceptable response times during peak usage; • Designing cloud-based authentication solutions allowing for single sign-on (SSO) among applications; and • Designing cloud-based authentication solutions that implement multi- factor authentication. Note: A qualifying project must have a minimum duration of six (6) months.		For each activity: Less than 1 year = 0 points 1 year up to 3 years = 2 points 3+ years up to 5 years = 4 points More than 5 years = 5 points *Each activity will be allocated up to a maximum of 5 points each. Therefore the total award of points for each activity is maximum 5 points. Total points available for this criteria is maximum 20 points for the 4 activities	
	To demonstrate compliance with all criteria, the Contractor must include the following information:		combined. Maximum 20 points	
RT1.5	 Project name; Client organization; Project start /end dates and duration; Project description; Description of role and tasks performed by the resource Client contact reference – email/phone number, role of the reference, how did the reference manage the contract in order to confirm? The Contractor should demonstrate that	5	O projects = 0 points	
K11.5	the Contractor should demonstrate that the proposed resource has experience within the last twelve (12) years as an Application/Software Architect	5	0 projects = 0 points 1+ project = 5 points	

performing any of the following tasks:		
a Developing deployment strategies for business intelligence tools within cloud architecture that address both structured and unstructured data;		
b Designing data warehouse-as- a-service solutions;		
c Designing data lakes that scale with ingested data but also discard data due to low value or if it contravenes policy to retain it		
Note: A qualifying project must have a minimum duration of twelve (12) months.		
To demonstrate compliance with all criteria, the Contractor must include the following information:		
 Project name; Client organization; Project start /end dates and duration; Project description; Description of role and tasks performed by the resource Client contact reference — email/phone number, role of the reference, how did the reference manage the contract in order to confirm? 	70	
Maximum Available Points	70	
Minimum Points Required	45	
Contractor's Score		

	ce Category I.10 – Technical Architect M of Proposed Resource:	obile – L	evel 3 	
#	Point-Rated Requirement	Points Max	Points Grid	Demonstrated Experience Cross-reference to Proposal/Project# /Resume
RT2.1	The Contractor should demonstrate that the proposed resource has: A university degree or post-secondary diploma in Computer Science or a related field in Information Technology, obtained through a recognized Canadian university or college; OR An equivalent Canadian academic credential assessment, if obtained outside Canada. A copy of the university degree, college diploma or academic credential assessment must be included with the Contractor's response. The copy must be a readable copy in English or French	10	No Degree/Diploma = 0 points Degree/Diploma = 10 points	
RT2.2	The Contractor should demonstrate that the proposed resource has experience in developing applications for iOS, Android or BlackBerry developed using Swift, Objective C, Java, Kotlin To demonstrate compliance with all criteria, the Contractor should include the following information: • Project name; • Client organization; • Project start /end dates and duration; • Project description; • Description of role and tasks performed by the resource	20	10 – 14 years = 5 points 14 -19 years = 10 points 19+ years = 20 points	

Client contact reference –

	email/phone number, role of the reference, how did the reference manage the contract in order to confirm?			
RT2.3	The Contractor should demonstrate that the proposed resource has experience within the last ten (10) years as a Technical Architect performing the following activities from the date of The Task Authorization request: • Incorporating serverless code in application architectures; • Designing scaling sets of virtual machines to keep costs low while still providing acceptable response times during peak usage; • Designing cloud-based authentication solutions allowing for single sign-on (SSO) among applications; and • Designing cloud-based authentication solutions that implement multi- factor authentication	20	For each activity: Less than 1 year = 0 points 1 year up to 3 years = 2 points 3+ years up to 5 years = 4 points More than 5 years = 5 points *To be very clear each Activity will be allocated up to a maximum of 5 points each for the 4 activities. Therefore the total award of points for each activity is maximum 5 points each. Total points available for this criteria is maximum 20 points for the 4 activities combined.	
Maximu	um Available Points			50
Minimu	m Points Required			35
Contrac	ctor's Score			

Resource Category: I.5 – IM Ar	hitect – Data/AI – Level 3
Name of Proposed Resource:	

				Demonstrated Experience
#	Point-Rated Requirement	Points Max	Points Grid	Cross-reference to Proposal/Project# /Resume
RT 3.1	The Contractor should demonstrate that the proposed resource has experience in excess of the mandatory minimum 5 years requirement in MT3.1 performing all of the following activities: • Using methodologies from Machine Learning, Deep Learning and Artificial Intelligence; • Applying Machine Learning using diverse types of data, diverse data sources and different types of learning models. • Developing queries to isolate data with high value within a Data Warehouse, Data Mart or Data Lake; • Performing exploratory data analysis, rapid prototyping and presenting creative ideas to exploit data to drive deeper insights and business value; • Providing proactive data analysis of large structured and unstructured datasets involving a wide range of systems across multiple disparate data sets; and • Developing data analytic / visualization plans to support high-quality, fact- based business decisions. Note: A qualifying project must have a minimum duration of six (6) months To demonstrate compliance with all criteria, the Contractor should include the following information: • Project name; • Client organization;	20	5+ years up to 6 years = 5 points 6+ years up to 7 years = 10 points 7+ years up to 8 years = 15 points More than 8 years = 20 points	

 Project start /end dates and duration; Project description; Description of role and tasks performed by the resource Client contact reference — 	
 Project description; Description of role and tasks performed by the resource 	
Description of role and tasks performed by the resource	
Description of role and tasks performed by the resource	
performed by the resource	
performed by the resource	
Client contact reference —	
Client contact reference —	
Official contact reference —	
email/phone number	
RT The Contractor should demonstrate that	
3.2 the proposed resource has experience	
in excess of the mandatory minimum 5 20 5+ years up to 6	
years requirement in MT3.2 performing years = 5 points	
five or more of the following activities:	
6+ years up to 7 years	
Working with scalable data	
platforms such as; Power BI,	
Hadoop, Spark, Redshift, NoSQL 7+ years up to 8 years	
(dynamoDB / MongoDB); = 15 points	
Building the tools and supporting data attractures peeded to	
data structures needed to More than 8 years =	
analyze data and perform data 20 points cleansing activities;	
Determining problematic issues	
with data and proposing	
feasible resolutions;	
Organizing, mapping, analyzing	
numerous data sets to incorporate	
them into one centralized data	
repository;	
Performing exploration of data, including analysis, mining of	
correlations and result	
verification;	
Developing and deploying	
solutions that addressed data	
aggregation challenges,	
including data being distributed	
across numerous databases or	
sources; and	
Developing and implementing	
strategies for data enrichment	
Note: A qualifying project must have a	
minimum duration of six (6) months.	
To demonstrate compliance with all criteria,	
the Contractor must include the following	
information:	
Project name;	
Client organization;	
Project start /end dates and	

	duration;			
	Project description;			
	 Description of role and tasks performed by the resource. 			
	 Client contact reference – email/phone number, role of the reference, how did the reference manage the contract in order to confirm? 			
RT 3.3	The Contractor should demonstrate that the proposed resource has experience within the last ten (10) years developing and testing custom algorithms and mathematical models as required to solve unique business challenges:	20	Less than 2 years = 0 points 2 years up to 5 years = 5 points	
	Note: A qualifying project must have a minimum duration of six (6) months.		5+ years up to 6 years = 10 points	
	To demonstrate compliance with all criteria, the Contractor must include the following information:		6+ years up to 7 years = 15 points More than 7 years = 20	
	 Project name; 		points	
	Client organization;			
	 Project start /end dates and duration; 			
	 Project description; 			
	 Description of role and tasks performed by the resource. 			
	 Client contact reference – email/phone number, role of the reference, how did the reference manage the contract in order to confirm? 			
RT 3.4	The Contractor should demonstrate that the proposed resource has experience	20	Less than 2 years = 0 points	
	within the last ten (10) years from the date of The Task Authorization request: performing the following tasks:		2 years up to 5 years = 5 points	
	 Developing strategies to develop and filter data sets related to macroeconomic 		5+ years up to 6 years = 10 points	
	models within Data Lakes; and • Developing visualizations relating to macroeconomic models.		6+ years up to 7 years = 15 points	
			More than 7 years = 20	

			points	
	Note: A qualifying project will have a minimum duration of six (6) months. To demonstrate compliance with all criteria, the Contractor should include the following information: Project name; Client organization; Project start /end dates and duration; Project description; Description of role and tasks performed by the resource. Client contact reference — email/phone number, role of the reference, how did the reference manage the contract in order to confirm?		points	
RT 3.5	The Contractor should demonstrate that the proposed resource has experience within the last ten (10) years from the date of The Task Authorization request: performing the following tasks: • Developing strategies to develop and filter large (greater than 250GB) data sets for reports and analysis; • Designing data transformation routines to be performed on data sources being ingested; and • Performing data extract and load operations as required Note: A qualifying project will have a minimum duration of six (6) months. To demonstrate compliance with all criteria, the Contractor should include the following information: • Project name; • Client organization; • Project start /end dates and duration;	20	Less than 2 years = 0 points 2+ years up to 5 years = 5 points 5+ years up to 6 years = 10 points 6+ years up to 7 years = 15 points More than 7 years = 20 points	

	 Project description; Description of role and tasks performed by the resource. Client contact reference – email/phone number, role of the reference, how did the reference manage the contract in order to confirm? 			
3.6	The Contractor should demonstrate that the proposed resource has completed or obtained: A post-graduate diploma, post-graduate certificate or industry certification related to any of the following: - Data Science; - Machine Learning - Artificial Intelligence - Natural Language Programming The Contractor must include a copy of the diploma(s) or certificate(s).	10	No diploma/certificate = 0 points 1+ post-graduate diploma/certificate = 10 points	
Maximum Available Points				110
Minir	Minimum Points Required			71
Cont	ractor's Score			

	Resource Category: I.10 – Technical Architect – Level 3 Name of Proposed Resource:						
#	Point-Rated Requirements	Points Max	Points Grid	Demonstrated Experience Cross-reference to Proposal/Project# /Resume			
RT4.1	The Contractor should demonstrate that the proposed resource has: A university degree or post- secondary diploma in Computer Science or a related field in Information Technology, obtained through a recognized Canadian university or college; OR An equivalent <i>Canadian academic credential assessment</i> , if obtained outside Canada. A copy of the university degree, college diploma or academic credential	10	No Degree/Diploma = 0 points Degree/Diploma = 10 points				

	assessment must be included with the Contractor response. The copy must be a readable copy in English or French.			
RT4.2	The Contractor should demonstrate that the proposed resource has experience performing the following tasks supporting Legacy-to-Cloud application migration projects: • Collecting relevant data on customers' existing applications including: architecture, workloads, services, data volumes, users, support requirements, network and other infrastructure requirements; • Conducting cloud assessments and analysis of workloads and services to determine which workloads are good candidates for migration; • Mapping source environment resources/services to target resources/services; • Defining and designing appropriate to-be application, platforms, and hosting architectures in public/private clouds; • Designing cloud architecture that meets key non- functional requirements (security, compliance, performance, resiliency, and availability); • Overseeing the migration of workloads and capabilities (e.g. Disaster recovery, archiving/backup) to cloud; and • Leveraging cloud specific services (e.g. Web Application PaaS, Resource Manager, etc.) to implement desired cloud operating models and enable DevOps capabilities. Note: A qualifying project must have a minimum duration of twelve (12) months and contain completion of at least three	30	Note: There are 6 points per project up to maximum of 5 projects (30 points maximum). *1 point for each area of experience up to a maximum of 6 points for each project. 5 projects x up to 6 points for each project up to a maximum of 30 points available	
	and contain completion of at least three			

	of the listed tasks.		I	
	טו נוום ווסנפט נמסתס.			
	To demonstrate compliance with all criteria,			
	the Contractor must include the following			
	information:			
	 Project name; 			
	Client organization;			
	 Project start /end dates and duration; 			
	Project description;			
	 Description of role and tasks 			
	performed by the resource. • Client contact reference –			
	email/phone number, role of the			
	reference, how did the reference			
	manage the contract in order to confirm?			
RT4.3	The Contractor should demonstrate that	20	Up to 10 points for	
	the proposed resource has experience		demonstration of tasks as	
	with large or complex * data migrations including five or more of the following		follows:	
	tasks:		5 to 6 tasks = 5 points	
	Developing the strategy		7 to 8 tasks = 10 points	
	Creating the plan			
	Analyzing data quality Pagelying data issues			
	Resolving data issuesValidating accuracy,		Up to 10 points for the	
	performance, accessibility,		number of years of experience as follows:	
	security and reliability		experience as follows.	
	Loading Cuitely average		1 year up to 3 years = 2	
	Switch-overOptimization		points	
	* Large or complex describes a		3+ years up to 4 years = 5	
	database that contains a significant		points	
	volume of data (more than 250 GB) or a broad data structure with many		4+ years up to 5 years =	
	relationships defined to the point that		8 points	
	queries and normal operations require		More than 5 years = 10	
	specialized application and database optimization approaches.		More than 5 years = 10 points	
			F 510	
	Note: A qualifying project must have a minimum duration of six (6) months.			
	, ,			
	To demonstrate compliance with all criteria,			
	the Contractor must include the following			
	information:			
	Project name;			
	 Client organization; 			
	 Project start /end dates and duration; 			
	Project description;			
	 Description of role and tasks 			
	performed by the resource.			
	 Client contact reference – email/phone number, role of the 			
	emaii/phone number, role of the		l .	

	reference, how did the reference manage the contract in order to confirm?			
RT4.4	The Contractor should demonstrate that the proposed resource has experience architecting and migrating on- premise <i>Enterprise-class</i> applications to an environment hosted on one of the Gartner 2019 Magic Quadrant for laaS cloud platforms (AWS, Azure or Google) using a <i>Hybrid cloud</i> deployment model. Note: A qualifying project must have a	15	1 project = 3 points 2 projects = 6 points 3 projects = 10 points 4 or more projects = 15 points	
	minimum duration of six (6) months. To demonstrate compliance with all criteria, the Contractor must include the following information:			
	 Project name; Client organization; Project start /end dates and duration; Project description; Description of role and tasks performed by the resource. Client contact reference – email/phone number, role of the reference, how did the reference manage the contract in order to confirm? 			
RT4.5	The Contractor should demonstrate that the proposed resource has experience with one of the following activities and tasks in a Cloud environment:	5	0 projects = 0 points 1 or more projects = 5 points	
	 Designing data warehousing as a service solutions Designing data lakes that scale with ingested data but also discard data due to low value or if it contravenes policy to retain it. Note: A qualifying project must have a minimum duration of twelve (12) months. 			
	To demonstrate compliance with all criteria, the Contractor must include the following information:			
	 Project name; Client organization; Project start /end dates and duration; Project description; Description of role and tasks performed by the resource. Client contact reference – 			

email/phone number, role of the reference, how did the reference manage the contract in order to confirm?		
Maximum Available Points	80	
Minimum Points Required	52	
Contractor's Score		

Resource Category: A.16 – Web Multi Media Content Consultant – Level 3						
Name o	Name of Proposed Resource:					
		Points		Demonstrated Experience		
#	Point-Rated Requirement	Max	Points Grid	Cross-reference to Proposal/Project# /Resume		
RT5.1	The Contractor should demonstrate the proposed resource's work experience as a UX design consultant was tasked with the following; • Creating and delivering presentations and reports on user experience implementation and user focus groups to *Executives. *Executives defined as Director level and above To demonstrate compliance with all criteria, the Contractor should include the following information: • Project name; • Client organization; • Project start /end dates and duration; • Project description; • Description of role and tasks performed by the resource • Client contact reference — email/phone number, role of the reference, how did the reference manage the contract in order to confirm?	20	less than 2 years = 0 points more than 2 years up to 3 years = 8 points more than 3 years up to 4 years = 12 points more than 4 years up to 5 years = 16 points more than 5 years = 20 points			
RT5.2	The Contractor should <u>demonstrate</u> the proposed resource's work experience as a UX design consultant tasked with:	20	less than 5 years = 0 points			

	Mentoring internal teams 1 on 1 and		more than 5 years up to 6 years = 8 points	
	via group coaching on UX design, information presentation and implementation.		more than 6 years up to 7 years = 12 points more than 7 years up to 8 years =	
	To demonstrate compliance with all criteria, the Contractor should include the following information:		16 points more than 8 years = 20 points	
	 Project name; Client organization; Project start /end dates and duration; Project description; Description of role and tasks performed by the resource. Client contact reference – email/phone number, role of the reference, how did the reference manage the contract in order to confirm? 			
RT5.3	The Contractor should <u>demonstrate</u> the proposed resource's work experience implementing Web Standards for <u>all</u> the following:	20	less than 2 years = 0 points more than 2 years up to 3 years = 8 points	
	 Accessibility; Usability; Optimizing Websites and Applications for Mobile Devices 		more than 3 years up to 4 years = 12 points more than 4 years up to 5 years = 16 points	
	To demonstrate compliance with all criteria, the Contractor should include the following information:		more than 5 years = 20 points	
	 Project name; Client organization; Project start /end dates and duration; Project description; Description of role and tasks performed by the resource. Client contact reference – email/phone number, role of the reference, how did the reference manage the contract in order to confirm? 			
RT5.4	The Contractor should demonstrate the proposed resource's work experience with the following:	20	less than 2 years = 0 points more than 2 years up to 3 years = 8 points	
	 Facilitating user research or design sessions with large groups including external stakeholders. 		more than 3 years up to 4 years = 12 points	
			more than 4 years up to 5 years = 16 points	
			more than 5 years = 20 points	

	To demonstrate compliance with all criteria, the Contractor should include the following information: Project name; Client organization; Project start /end dates and duration; Project description; Description of role and tasks performed by the resource. Client contact reference – email/phone number, role of the reference, how did			
RT5.5	the reference manage the contract in order to confirm? The Contractor should demonstrate that the proposed resource holds; • A degree, diploma or certificate in visual design, web design, design thinking, industrial design or related design field. The Contractor should provide proof of education completion from a recognized Canadian university or college, or the equivalent as established by a recognized Canadian academic credentials assessment service, if obtained outside of Canada A Copy of any degree, certificate or diploma must be provided with the Contractor response.	5	No certificate/diploma/degree = 0 points Certificate/degree/diploma = 5 points	
Maximur	m Available Points			85
Minimun	n Points Required			59
Contract	tor's Score			

Resour	Resource Category: A.6- Programmer/Software Developer (iOS/Android) – Level 3						
Name o	Name of Proposed Resource:						
#	Point-Rated Requirement	Points Max	Points Grid	Demonstrated Experience Cross-reference to Proposal/Project #			

DTC 4	The Contractor objected descriptions that	20	Elizabeth Company - Omplets	1
RT6.1	The Contractor should demonstrate that	20	5+ years to 6 years = 8 points	
1	the proposed resource has experience, in		6+ years to 7 years = 12 points	
	excess of the minimum 5 years		6+ years to 7 years = 12 points	
	mandatory requirement in M8.1,		7+ years to 8 years = 16 points	
	designing, developing, testing and		7 · years to o years - to points	
	deploying code and software for a mobile		More than 8 years = 20 points	
	application on the public cloud		Wore than o years – 20 points	
	Niete A sur-life in a sur-in-t-server to the sur-			
	Note: A qualifying project must have a			
	minimum duration of six (6) months			
	To demonstrate assembles as with all			
	To demonstrate compliance with all			
	criteria, the Contractor should include the			
	following information:			
	Project name;			
	 Client organization; 			
	Project start /end dates and			
	duration;			
	Project description;			
	Description of role and tasks			
	performed by the resource			
	Client contact reference —			
	email/phone number, role of the			
	reference, how did the reference			
	manage the contract in order to confirm?			
RT6.2	The Contractor should demonstrate	10	No Certifications = 0 points	
K10.Z	that the proposed resource has:	10	No Certifications – 0 points	
	linat the proposed resource has.		1 or more Certifications = 10	
	One (1) of the following		points	
	certifications applicable to			
	Infrastructure as a Service (laaS)			
	platforms from one or more			
	· ·			
	Leaders in the Gartner 2019			
	Magic Quadrant for laaS Cloud			
	(i.e. AWS, Azure, or Google):			
	AWS Certified Developer			
	Azure Developer			
	Associate			
	 Google Professional 			
	Cloud Developer			
	Note: A copy of the certification must			
	be provided.			
RT6.3	The Contractor should demonstrate	6	0 projects = 0 points	
	that the proposed resource has			
	experience designing, developing,		1 project = 2 points	
	testing and deploying code and			
	software for one or more of the		2 projects = 4 points	
	following types of solution projects:			
			3 or more projects = 6 points	
	Mobile computing			
	 Artificial Intelligence or 			
	Machine Learning			
	Biometrics			
	Note: A qualifying project must			
	have a minimum duration of twelve			
	I have a minimum daration of twelve			

	nonths			
specif	cts should be fully described ing the platform, technology and ic features/functionalities (highdeployed.			
criteria	monstrate compliance with all a, the Contractor should include llowing information:			
•	Project name; Client organization; Project start /end dates and duration; Project description; Description of role and tasks performed by the resource. Client contact reference — email/phone number, role of the reference, how did the reference manage the contract in order to confirm?			
that the experitesting software solution of the experitesting software solution of the experite	contractor should demonstrate the proposed resource has ence designing, developing, g and deploying code and the for mobile application tons including the following: back-end and web-tier components for data collected externally (to the organization) and/or internally; application code to process the data in some manner security controls A qualifying project must a minimum duration of six (6) the six. cts should be described ing the architecture, data ted (including source/method) rocessing functionality (ies)	10	Less than 3 years = 0 points 3 years up to 4 years = 6 points 4+ years up to 5 years = 8 points More than 5 years = 10 points	

	 Project start /end dates and duration; Project description; Description of role and tasks performed by the resource. Client contact reference – email/phone number, role of the reference, how did the reference manage the contract in order to confirm? 			
RT6.5	The Contractor should demonstrate that the proposed resource has experience designing, developing and implementing mobile applications using the following languages:	20	Less than 5 years = 0 points 6 years up to 7 years = 5 points 8+ years up to 9 years = 10 points 10+ years up to 14 years = 15 points More than 15 years = 20 points	
	 Project name; Client organization; Project start /end dates and duration; Project description; Description of role and tasks performed by the resource. Client contact reference — email/phone number, role of the reference, how did the reference manage the contract in order to confirm? 			
RT6.6	The Contractor should demonstrate that the proposed resource has experience in reverse engineering legacy software applications created in one or more of the following: • COBOL (Mainframe) • C/C++ • J2EE Note: A qualifying project must have a minimum duration of six (6) months.	5	Less than 1 year = 0 points More than 1 year = 5 points	

The Contractor should demonstrate	4	Less than 1 year = 0 points	
that the proposed resource has experience developing and deploying mobile applications using AWS tools.		1 year up to 3 years = 2 points	
Note: A qualifying project must have a minimum duration of six (6) months.		More than 5 years = 4 points	
To demonstrate compliance with all criteria, the Contractor should include the following information:			
 Project name; Client organization; Project start /end dates and duration; Project description; Description of role and tasks performed by the resource. Client contact reference — email/phone number, role of the reference, how did the reference manage the contract in order to confirm? 			
The Contractor should demonstrate	5	No Degree/Diploma= 0 points	
that the proposed resource has.		Degree/Diploma = 5 points	
A university degree or post- secondary diploma in Computer Science or a related field in Information			
Technology, obtained through a recognized Canadian university or college; OR			
An equivalent Canadian academic credential assessment , if obtained outside Canada.			
A copy of the university degree, college diploma or academic credential assessment must be included with the Contractor's response to the TA. The copy must be a readable copy in English or French.			
m Available Points	I	80	
m Points Required			56
tor's Score			
	that the proposed resource has experience developing and deploying mobile applications using AWS tools. Note: A qualifying project must have a minimum duration of six (6) months. To demonstrate compliance with all criteria, the Contractor should include the following information: Project name; Client organization; Project start /end dates and duration; Project description; Project description; Project description of role and tasks performed by the resource. Client contact reference — email/phone number, role of the reference, how did the reference manage the contract in order to confirm? The Contractor should demonstrate that the proposed resource has: A university degree or post-secondary diploma in Computer Science or a related field in Information Technology, obtained through a recognized Canadian university or college; OR An equivalent Canadian academic credential assessment, if obtained outside Canada. A copy of the university degree, college diploma or academic credential assessment must be included with the Contractor's response to the TA. The copy must be a readable copy in English or French. m Available Points m Points Required	that the proposed resource has experience developing and deploying mobile applications using AWS tools. Note: A qualifying project must have a minimum duration of six (6) months. To demonstrate compliance with all criteria, the Contractor should include the following information: Project name; Client organization; Project description; Project description; Project description; Client contact reference — email/phone number, role of the reference, how did the reference manage the contract in order to confirm? The Contractor should demonstrate that the proposed resource has: A university degree or post-secondary diploma in Computer Science or a related field in Information Technology, obtained through a recognized Canadian university or college; OR An equivalent Canadian academic credential assessment, if obtained outside Canada. A copy of the university degree, college diploma or academic credential assessment must be included with the Contractor's response to the TA. The copy must be a readable copy in English or French. M Available Points In Points Required	that the proposed resource has experience developing and deploying mobile applications using AWS tools. Note: A qualifying project must have a minimum duration of six (6) months. To demonstrate compliance with all criteria, the Contractor should include the following information: Project name; Client organization; Project description; Description of role and tasks performed by the resource. Client contact reference – email/phone number, role of the reference manage the contract in order to confirm? The Contractor should demonstrate that the proposed resource has: A university degree or post-secondary diploma in Computer Science or a related field in Information Technology, obtained through a recognized Canadian university or college; OR An equivalent Canadian academic credential assessment, if obtained outside Canada. A copy of the university degree, college diploma or academic credential assessment must be included with the Contractor's response to the TA. The copy must be a readable copy in English or French. Mayailable Points In Points Required

Resource Category: A.14 - Web Developer - Level 3

Name o	Name of Proposed Resource:						
		Points		Demonstrated Experience			
#	Point-Rated Requirement	Max	Points Grid	Cross-reference to Proposal/Project#			
RT7.1	The Contractor should demonstrate the proposed resource's professional experience within the last ten (10) years developing web applications using the following client/server -side technologies (as per MT2.3) a) HTML b) CSS c) JavaScript d) AJAX Note: A qualifying project will have a minimum duration of six (6) months. To demonstrate compliance with all criteria, the Contractor should include the following information: • Project name; • Client organization; • Project description; • Project description; • Description of role and tasks performed by the resource. • Client contact reference — email/phone number, role of the reference, how did the reference manage the contract in order to confirm?	20	less than 5 years = 0 points more than 5 years up to 7 years = 5 points more than 7 years up to 8 years = 10 points more than 8 years up to 9 years = 15 points more than 9 years = 20 points	Resume			
RT7.2	The Contractor should demonstrate the resource's professional work experience as a web developer within the Federal Government of Canada designing, developing, modifying, enhancing and testing web projects/applications that complied with government web application standards and/or guidelines. Note: A qualifying project must have a minimum duration of six (6) months. To demonstrate compliance with all criteria, the Contractor should include the following information: Project name; Client organization; Project start /end dates and	20	less than 1 year = 0 points more than 1 year up to 2 years = 5 points more than 2 years up to 3 years = 10 points more than 3 years up to 4 years = 15 points more than 4 years = 20 points				

	,			,
	 duration; Project description; Description of role and tasks performed by the resource. Client contact reference – email/phone number, role of the reference, how did the reference manage the contract in order to confirm? 			
RT7.3	The Contractor should demonstrate the resource's professional work experience within the last ten (10) years, participating in user interface design sessions, recommending and applying user interface principles, content organization, page flows, interaction design and navigation schemes Note: A qualifying project must have a minimum duration of six (6) months. To demonstrate compliance with all criteria, the Contractor should include the following information: Project name; Client organization; Project start /end dates and duration; Project description; Description of role and tasks performed by the resource. Client contact reference — email/phone number, role of the reference, how did the reference manage the contract in order to confirm?	20	less than 2 years = 0 points more than 2 years up to 3 years = 5 points more than 3 years up to 4 years = 10 points more than 4 years up to 5 years = 15 points more than 5 years = 20 points	
RT7.4	The Contractor should demonstrate the resource's professional work experience within the last ten (10) years, writing the following technical documents; - Design Specifications, - IT Functional Specifications, - System/Process flowcharts Note: A qualifying project must have a ['minimum duration of six (6) months. To demonstrate compliance with all criteria, the Contractor should include the following information: • Project name; • Client organization; • Project start /end dates and duration;	20	less than 2 years = 0 points more than 2 years up to 3 years = 5 points more than 3 years up to 4 years = 10 points more than 4 years up to 5 years = 15 points more than 5 years = 20 points	

 Project description; Description of role and tasks performed by the resource. Client contact reference – email/phone number, role of the reference, how did the reference manage the contract in order to confirm? 			
The Contractor should demonstrate the resource's professional work experience within the last ten (10) years,, researching and/or applying current trends, methodologies, standards, practices and/or products in a web development environment. Note: A qualifying project must have a minimum duration of six (6) months. To demonstrate compliance with all criteria, the Contractor should include the following information: Project name; Client organization; Project start /end dates and duration; Project description; Description of role and tasks performed by the resource. Client contact reference — email/phone number, role of the reference, how did the reference manage the contract in order to confirm?	20	Evaluation Breakdown: less than 2 years = 0 points more than 2 years up to 3 years = 5 points more than 3 years up to 4 years = 10 points more than 4 years up to 5 years = 15 points more than 5 years = 20 points	
Minimum Pass Mark	100		
Minimum Points Required	70		
Contractor's Score			

Resource Category: P.11 Quality Assurance Specialist – Level 3	
Name of Proposed Resource:	

		Points		Demonstrated Experience
#	Point-Rated Requirement	Max	Points Grid	Cross-reference to Proposal/Project# /Resume
RT8.1	The Contractor should clearly substantiate and demonstrate that the proposed resource has a minimum of five (5) years' experience in the past ten (10) years: Demonstrated professional applications development work experience applying software development methodologies such as Agile, Waterfall, etc Briefing senior management (Director level and/or above) Note: A qualifying project must have a minimum duration of six (6) months. To demonstrate compliance with all criteria, the Contractor should include the following information: Project name; Client organization; Project description; Project description; Description of role and tasks performed by the resource. Client contact reference – email/phone number, role of the reference, how did the reference manage the contract in order to confirm?	20	Less than 60 months= 0 pts 60 to 83 months= 5 pts 84 to 107 months= 10 pts 108 to 119 months= 15 pts Greater than 120 months = 20 points	
RT8.2	The Contractor should clearly demonstrate that the proposed resource has professional work experience chairing and facilitating meetings with project stakeholders and technical teams in order to review, clarify and confirm project deliverables such as requirements, technical documents and prototypes in 5 years' experience within the	20	Less than 60 months= 0 pts 60 to 83 months= 2 pts 84 to 107 months= 4 pts 108 to 119 months= 6 pts	

	past ten (10) years.		Greater than 120 months = 10	
			points	
	Note: A qualifying project must have a			
	minimum duration of six (6) months.			
	To demonstrate compliance with all criteria, the Contractor should include the following			
	information:			
	Project name;			
	Client organization;			
	Project start /end dates and duration;			
	Project description;			
	 Description of role and tasks performed by the resource. 			
	Client contact reference – email/phone number, role of the reference, how did			
	the reference manage the contract in order to confirm?			
RT8.3	The Contractor should clearly substantiate and	10		
	demonstrate that the proposed resource has a		Loop than 60 manthan 0 mt	
	minimum of five (5) years' experience in the past ten (10) years from the date of The Task		Less than 60 months= 0 pts	
	Authorization request:		60 to 83 months= 2 pts	
			84 to 107 months= 4 pts	
	Coordinating functional and regression		108 to 119 months= 6 pts	
	testing Managing projects with multiple		Greater than 120 months = 10	
	stakeholders		points	
	Note: A qualifying project must have a minimum duration of six (6) months.			
	To demonstrate compliance with all criteria, the			
	Contractor should include the following information:			
	Project name;			
	Client organization;			
	Project start /end dates and duration;			
	Project description;			
	Description of role and tasks			

	performed by the resource.			
	Client contact reference – email/phone number, role of the reference, how did the reference manage the contract in order to confirm?			
RT8.4	The Contractor should clearly substantiate and demonstrate that the proposed resource has a minimum of five (5) years' experience in the past ten (10) years: Developing test approaches, test plans, schedule (MS Project, JIRA) and provided estimates to support Legacy, N-tier and web application development Note: A qualifying project must have a minimum duration of six (6) months. To demonstrate compliance with all criteria, the Contractor should include the following information: Project name; Client organization; Project description; Description of role and tasks performed by the resource. Client contact reference — email/phone number, role of the reference, how did the reference manage the contract in order to confirm?	20	Less than 60 months= 0 pts 60 to 83 months= 5 pts 84 to 107 months= 10 pts 108 to 119 months= 15 pts Greater than 120 months = 20 points	
RT8.5	The Contractor should clearly substantiate and demonstrate that the proposed resource has a minimum of five (5) years' experience in the past ten (10) years: • Leading and overseeing all user acceptance software testing requirements including, functional test in-line with requirements specification, and regression testing for specified iterations Note: A qualifying project must have a minimum duration of six (6) months.	20	Less than 60 months= 0 pts 60 to 83 months= 5 pts 84 to 107 months= 10 pts 108 to 119 months= 15 pts Greater than 120 months = 20 points	

To demonstrate compliance with all criteria, the Contractor should include the following information: Project name; Client organization; Project start /end dates and duration; Project description; Description of role and tasks performed by the resource.		
Client contact reference – email/phone number, role of the reference, how did the reference manage the contract in order to confirm?		
Minimum Pass Mark	90	
Minimum Points Required	63	3
Contractor's Score		

APPENDIX D TO ANNEX A

CERTIFICATIONS AT THE TA STAGE

The following Certifications are to be used, as applicable. If they apply, they must be signed and attached to the Contractor's quotation when it is submitted to Canada.

1.	CERTIFICATION OF EDUCATION AND E	XPERIENCE	
propos achiev Furthe	ontractor certifies that all the information prosed for completing the subject work, particularements, experience and work history, has bermore, the Contractor warrants that every in able of performing the Work described in the	arly the information of the info	ation pertaining to education, the Contractor to be true and accurate. sed by the Contractor for the requirement
Print n	ame of authorized individual & sign above		Date
2.	CERTIFICATION OF AVAILABILITY OF F	PERSONNEL	
the pe	ontractor certifies that, should it be authorize rsons proposed in the quotation will be avail nable time from the date of issuance of the v x Form, and will remain available to perform	able to comme alid Task Auth	ence performance of the work within a orization, or within the time specified in
Print n	name of authorized individual & sign above		Date
3.	CERTIFICATION OF STATUS OF PERSO	ONNEL	
certified perform the Co by the	Contractor has proposed any individual who is that it has permission from that individual med under this TA and to submit his/her résontractor must, upon request from the Contractor must, upon request from the Contractor must, of the permission that was given y with the request may result in a default unctions.	to propose his umé to Canad acting Authority to the Contrac	/her services in relation to the Work to be la. At any time during the Contract Period y, provide the written confirmation, signed tor of his/her availability. Failure to
Print n	name of authorized individual & sign above		Date
4.	CERTIFICATION OF LANGUAGE - Englis	sh	
The C	ontractor certifies that the proposed resource	e(s) in respons	se to this draft Task Authorization is/are
	in English. The individual(s) proposed must it any assistance and with minimal errors.	be able to com	nmunicate orally and in writing in English
Print n	name of authorized individual & sign above		 Date

ANNEX B - BASIS OF PAYMENT

CONTRACT PERIOD:

Date of Contract Award to three years later

Resource Category	Level of	Firm Per Diem Rate					
Resource Category	Expertise	Year 1	Year 2	Year 3			
A.1 Application/Software Architect	Level 3						
I.5 IM Architect – Cloud	Level 3						
I.10 Technical Architect	Level 3						
I.5 IM Architect – Data/ AI	Level 3						
I.10 Technical Architect - Mobile	Level 3						
A.16 Web Multi Media Content Consultant	Level 3						
A.6 Programmer / Software Developer (iOS/Android)	Level 3						
A.14 Web Developer	Level 3						
P.11 Quality Assurance Specialist / Analyst	Level 3						

ANNEX C - SECURITY REQUIREMENTS CHECK LIST

COMMON-PS-SRCL#6

 Government
of Canada

Gouvernement du Canada

Contract Number / Numéro du contrat	
1000360986	
Security Classification / Classification de sécurité UNCLASSIFIED	

SECURITY REQUIREMENTS CHECK LIST (SRCL)

PART A - CONTRACT INFORMATION / PARTI	IFICATION DES EXIGENCES RELA		
Originating Government Department or Organi		2. Branch or Directorate / Direction géné	erale ou Direction
Ministère ou organisme gouvernemental d'orig		ISTB	
3. a) Subcontract Number / Numéro du contrat de	e sous-traitance 3. b) Name and A	ddress of Subcontractor / Nom et adresse du s	sous-traitant
Brief Description of Work / Brève description d IT Pro Services - Covid19	lu travail		
 a) Will the supplier require access to Controlle Le fournisseur aura-t-il accès à des marcha 			No Yes
5. b) Will the supplier require access to unclassif	TO SEE TO SEE THE SEE SEE SEE SEE SEE SEE SEE SEE SEE S	ovisions of the Technical Data Control	No Yes
Regulations?			Non L Uu
Le fournisseur aura-t-il accès à des donnée sur le contrôle des données techniques?	s techniques militaires non classifiées qui	sont assujetties aux dispositions du Règlemen	ž.
Indicate the type of access required / Indiquer	le type d'accès requis		
6. a) Will the supplier and its employees require		ED information or provide?	The The
Le fournisseur ainsi que les employées require :			No Yes
(Specify the level of access using the chart		a delia i morta con del della constante di	
(Préciser le niveau d'accès en utilisant le ta			
b) Will the supplier and its employees (e.g. cle		cess to restricted access areas? No access to	
PROTECTED and/or CLASSIFIED informat		cès à des zones d'accès restreintes? L'accès	Non L Oui
à des renseignements ou à des biens PRO			
6. c) Is this a commercial courier or delivery requ			No Yes
S'agit-il d'un contrat de messagerie ou de li		e nuit?	Non L Oui
7. a) Indicate the type of information that the sup	plier will be required to access / Indiquer le	e type d'information auguel le fournisseur devra	a avoir accès
Canada 🗸	NATO / OTAN	Foreign / Étrange	
	100000000	Foreign / Etrange	<u>' </u>
b) Release restrictions / Restrictions relatives			
No release restrictions Aucune restriction relative	All NATO countries Tous les pays de l'OTAN	No release restrictions Aucune restriction relative	
à la diffusion	Tous les pays de l'OTAN	à la diffusion	
Not releasable			
A ne pas diffuser			
		The state of the s	
Restricted to: / Limité à :	Restricted to: / Limité à :	Restricted to: / Limité à :	
Specify country(ies): / Préciser le(s) pays :	Specify country(ies): / Préciser le(s)	pays : Specify country(ies): / Préci	ser le(s) pays :
7. c) Level of information / Niveau d'information			
PROTECTED A	NATO UNCLASSIFIED	PROTECTED A	
PROTÉGÉ A	NATO NON CLASSIFIÉ	PROTÈGÉ A	
PROTECTED B	NATO RESTRICTED	PROTECTED B	
PROTÉGÉ B	NATO DIFFUSION RESTREINTE	PROTÉGÉ B	
PROTECTED C	NATO CONFIDENTIAL	PROTECTED C	
PROTÉGÉ C	PROTEGÉ C		
CONFIDENTIAL	NATO SECRET	CONFIDENTIAL	
CONFIDENTIEL	NATO SECRET	CONFIDENTIEL	
SECRET	COSMIC TOP SECRET	SECRET	
SECRET	COSMIC TRES SECRET	SECRET	
TOP SECRET		TOP SECRET	
TRÉS SECRET		TRES SECRET	님
TOP SECRET (SIGINT) TRES SECRET (SIGINT)		TOP SECRET (SIGINT)	



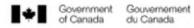
Contract Number / Numéro du contrat 1000360986

Security Classification / Classification de sécurité UNCLASSIFIED

	inued) PARTIE A (suite)	ED and/or CLASSIFIED COMSEC	playmation or assats?		No Yes
		ements ou à des biens COMSEC de		ASSIFIES?	Non Oui
	ate the level of sensitivity:	manua da a des dema domineo de	ages in the reaction of	Service of the servic	
	native, indiquer le niveau de sensi	blité:			
		sensitive INFOSEC information or a	ssets?		No Yes
		ements ou à des biens INFOSEC de		7	NonOui
	-				
Short Title(s	i) of material / Titre(s) abrégé(s) d	u matériel :			
Document N	lumber / Numéro du document :				
PART B - PER	SONNEL (SUPPLIER) / PARTIE	B - PERSONNEL (FOURNISSEUR	t)		
a) Personn	el security screening level require	d / Niveau de contrôle de la sécurit	du personnel requis		
_					
V	RELIABILITY STATUS	CONFIDENTIAL	SECRET	TOP SECF	
	COTE DE FIABILITÉ	CONFIDENTIEL	SECRET	TRÉS SEC	RET
	TOP SECRET-SIGINT	NATO CONFIDENTIAL	NATO SECRET	COSMICT	OP SECRET
	TRES SECRET - SIGINT	NATO CONFIDENTIEL	NATO SECRET	COSMICT	RES SECRET
	POTE ADDEDO				
	SITE ACCESS ACCES AUX EMPLACEMENTS				
	ACCES AUX EMPLACEMENTS	•			
	Special comments:				
	Commentaires spéciaux :				
	Commenter specialist				
	value of the second				
		ning are identified, a Security Classife			
78 - 1 1 4 4		aux de contrôle de sécurité sont req	uis, un guide de classification	de la sécurité doit être	
	creened personnel be used for po				No Yes
		e peut-il se voir confier des parties d	iu travaii?		Non Oui
	vill unscreened personnel be esco				No Yes
Dans l'a	ffirmative, le personnel en questio	on sera-t-il escorté?			NonOui
		IE C - MESURES DE PROTECTION	N (FOURNISSEUR)		
INFORMATIO	ON / ASSETS / RENSEIGNER	MENTS / BIENS			
11. a) Will the	supplier be required to receive an	d store PROTECTED and/or CLAS	SIFIED information or assets	on its site or	No Yes
11. a) Will the premise		d store PROTECTED and/or CLAS	SIFIED information or assets	on its site or	No Yes
premise Le fourn	s? isseur sera-t-il tenu de recevoir et	nd store PROTECTED and/or CLAS t d'entreposer sur place des renseig			No Yes Non Oui
premise	s? isseur sera-t-il tenu de recevoir et				No Yes Non Oui
Le fourn CLASSI	s? isseur sera-t-il tenu de recevoir el FIES?	t d'entreposer sur place des renseig			No Yes Non Oui
premise Le fourn CLASSI 11. b) Will the	s? isseur sera-t-il tenu de recevoir el FIES? supplier be required to safeguard	t d'entreposer sur place des renseig COMSEC information or assets?	nements ou des biens PROT		No Yes Oui
premise Le fourn CLASSI 11. b) Will the	s? isseur sera-t-il tenu de recevoir el FIES? supplier be required to safeguard	t d'entreposer sur place des renseig	nements ou des biens PROT		No Yes No Oui No Oui
premise Le fourn CLASSI 11. b) Will the Le fourn	s? isseur sera-t-il tenu de recevoir el FIES? supplier be required to safeguard isseur sera-t-il tenu de protéger d	t d'entreposer sur place des renseig COMSEC information or assets?	nements ou des biens PROT		
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COMMON-PS-SRCL#6



Contract Number / Numéro du contrat 1000360966 Secunity Classification / Classification de sécunité UNCLASSIFIED

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APPENDIX A TO ANNEX C - SECURITY CLASSIFICATION GUIDE

The related Statement of Work (SOW) defines the professional services required to assist CBSA with **Application and Data Services** related tasks. The SOW covers aspects related to the provision of multiple personnel at any given time for the duration of the Contract.

Various categories of professional services will be required.

Applications and Data Services

Resource Category	Level	Minimum Security Clearance
A.1 Application/Software Architect	3	Reliability
I.5 IM Architect – Cloud	3	Reliability
I.10 Technical Architect	3	Reliability
I.5 IM Architect – Data/ AI	3	Reliability
I .10 Technical Architect - Mobile	3	Reliability
A.16 Web Multi Media Content Consultant	3	Reliability
A.6 Programmer / Software Developer (iOS/ Android)	3	Reliability
A.14 Web Developer	3	Reliability
P.11 Quality Assurance Specialist / Analyst	3	Reliability

All resources assigned to this Contract without exception must be cleared at a minimum to the Reliability Level.