



Position: Senior Web Developer
Reference #: 1795
Department: Innovation, Science and Economic Development Canada
Security Clearance: Reliability
Location: National Capital Region
Pay rate is negotiable
Contract Length: 1 year + Four 1 year
Language: English Essential

Statement Of Work

1.0 MANDATE

The Department of Industry (also known as Innovation, Science and Economic Development (ISED) Canada) works with Canadians in all areas of the economy and in all parts of the country to improve conditions for investment, enhance Canada's innovation performance, increase Canada's share of global trade and build a fair, efficient and competitive marketplace.

This includes managing Canada's airwaves and overseeing its bankruptcy, incorporation, intellectual property and measurement systems; providing financing and industry research tools to help businesses develop, import and export; encouraging scientific research; and protecting and promoting the interests of Canadian consumers.

2.0 ORGANIZATION

The mandate of the Chief Information Office (CIO) branch of the Digital Transformation Services Sector, of Innovation, Science and Economic Development Canada (ISED) is to maximize ISED's business performance through modern and progressive management of information technology (IT) services, policies, and resources. The CIO Branch is specifically responsible for:

- Establishing IM/IT strategies and policies that support the overall mandate of the Department and are consistent with established funding envelopes;

- Aligning IM/IT resources with departmental priorities and IM/IT plans through a practical governance structure;
- Providing high-quality, affordable IM/IT services to departmental business partners;
- Providing high-quality and responsive support to departmental IM/IT users;
- Establishing department-wide technology standards and architecture to maximize opportunities for horizontal investments in IM/IT across the department; and
- Directing and supporting a program of IM activities to ensure the effective and efficient management of information within Innovation, Science and Economic Development Canada.

The Digital Services Division (DSD) is responsible for the development of solutions and applications as well as the maintenance of existing systems to support ISED business units. Services are delivered through the following organizational directorates:

- Business Line Solutions (BLSD)
- Research, Development and Analytics (RDAD)
- Digital Platforms and Adoption (DPAD)
- Architecture Services (ASD)

3.0 PROJECT OBJECTIVES/REQUIREMENTS

Services are centered around the development of web applications based on application architecture specifications and requirements according to ISED's standards and guidelines. The web applications are to support the various ISED business units.

Innovation, Science and Economic Development (ISED) Canada requires the services of User Interface Developers to work on applications for ISED business clients.

4.0 SCOPE OF WORK / KEY ACTIVITIES

The WEB Developer/User Interface Developer will support the various DSD projects and initiatives in the design and development of web applications. Duties and deliverables may include but not be limited to the following:

- Analyze user requirements to determine system features and functionality;
- Drive best practices, quality and consistency within the design and development phases;
- Design, develop, program, test, deploy and enhance web application interfaces in support of transactional/decision, forms-based, multi-step business processes;
- Design user interfaces for web applications following Treasury Board Web Standards, Web Content Accessibility Guidelines (WCAG) and Web Experience Toolkit (WET);
- Produce/update user story documentation and technical specifications;

- Implement web application navigation and content flow and produce sitemaps and workflow diagrams;
- Develop user interfaces for web applications that include the use of web forms;
- Program user interfaces with CSS based layouts, scripting languages, frameworks;
- Develop prototypes/mock-ups of user interfaces for user and client acceptance;
- Develop the GUI for web applications following the Treasury Board Web standards;
- Develop graphics for the web using Adobe Creative Suite (i.e. Photoshop, Fireworks, etc.);
- Develop web applications using IDEs (Integrated Development Environment);
- Present application demos to stakeholders as required;
- Develop and maintain technical/system documentation;
- Develop user interfaces for mobile UI development;
- Perform automated front end testing;
- Use version control systems when developing user interfaces;
- Apply/Utilize an Agile Software Development Life Cycle (SDLC) methodology as part of a collaborative team;
- Follow ISED application life cycle methodologies, timelines and project plans;
- Collaborative team effort with the Project Manager, Interaction Designer, other Developers, Testers and Operations and Maintenance developers;
- Meets with clients when requested for project deliverables;
- Complete and submit, for weekly approval, time sheets by project using the (in-house) Project Tracking System; and
- Provide updates/status reporting to project team management as required.

5.0 OTHER PROJECT DETAILS

5.1 Constraints

The resource must work within constraints imposed by the department, such as government policies and mandatory procedures, current and proposed related activities, security, sensitivity to other interests, protection of the environment, conservation of resources and other relevant restrictions and work space as required.

5.2 Work Location

The contractor will carry out the work primarily remote/telework, however onsite work at ISED locations in the National Capital region may be required.

5.3 Travel

No travel or living expenses will be reimbursed under the contract.

6.0 MANAGEMENT OF THE PROJECT

This resource reports to a BLSD Project Manager.

Mandatory Criteria

Criteria #	Corporate Mandatory Criteria	Required Supporting Information
M1	<p>In addition to <i>Part 5 – Certifications, Section 5.2 – Additional Certifications Precedent to Contract Award, Sub-Section a. Professional Services Resources</i> the proposed resource must be available within 10 business days following contract award.</p> <p>Should the proposed resource of the successful bidder not be available to start within 10 days of the contract award, the successful bidder acknowledges and agrees that the Service Agreement Contract awarded to them may be cancelled.</p>	<p>Bidders must certify that their proposed resource will be available within 10 business days following contract award.</p>
Criteria #	<p style="text-align: center;">Stream 1 – Applications Services</p> <p style="text-align: center;">A.14 – Web Developer - Level 3</p> <p style="text-align: center;">Resource Mandatory Criteria</p>	<p style="text-align: center;">Required Supporting Information</p>
M2	<p>If the proposed resource has been contracted at the Department of Industry (also known as Innovation, Science and Economic Development (ISED) Canada), within the last five (5) years, the Bidder must provide the following information for reference checking purposes:</p> <ul style="list-style-type: none"> • The Department of Industry (also known as Innovation, Science and Economic Development (ISED) Canada), employee client/ project authority name; • Telephone number/email. 	<p>If the proposed resource has been contracted by the Department of Industry (also known as Innovation, Science and Economic Development (ISED) Canada), within the last five (5) years, provide:</p> <ul style="list-style-type: none"> • Innovation, Science and Economic Development Canada's client/project authority name; • Telephone number/email. <p>If the proposed resource has NOT been contracted by the Department of Industry</p>

	<p>In the event that the Department of Industry (also known as Innovation, Science and Economic Development (ISED) Canada), reference check outlines that the proposed resource's contract was terminated for non-performance or the information provided in the Bid is found to be false through the reference check the criterion will be deemed non-compliant and no further consideration will be given to the Bidder's technical proposal;</p> <p>and</p> <p>In the event that the proposed resource indicates that they were contracted by ISED, the Bidder MUST indicate the resource category for which the proposed resource was contracted under. If the information provided varies from that which is validated by ISED, no further consideration will be given to the Bidder's technical proposal.</p> <p><i>Note: Failure on the part of the Bidder to provide accurate and current contact information will result in the Bidder's Proposal being deemed non-compliant and being given no further consideration in the evaluation process. The onus is on the Bidder to provide current and accurate client reference information.</i></p>	<p>(also known as Innovation, Science and Economic Development (ISED) Canada), within the last five (5) years, nothing is required for M2.</p>
<p>M2a</p>	<p>The bidder must demonstrate in their proposal that the proposed resource possess the qualifications specified in the TBIPS SA by providing a detailed résumé stating the proposed individual's work experience and other relevant details, which clearly indicate that the individual meet the minimum years of related experience as outlined in the TBIPS Stream 1 Applications Services – resource category description for a Web Developer – Level 3.</p> <p>The proposed resource must have greater than ten (10) years professional work experience within the last twelve (12) years working as a Web</p>	<p>Provide examples of projects for which the proposed resource has professional work experience working as a Web Developer performing web application interface development.</p> <p>The sum of all the examples must exceed 10 years.</p>

	<p>Developer performing web application interface development.</p>	
<p>M3</p>	<p>The Bidder must provide two (2) client references for separate Government of Canada (GoC) department/agency/crown corporation or provincial government or private sector organizations where the proposed resource was contracted as a Web Developer/User Interface Developer within the last eight (8) years.</p> <p>Notes:</p> <ul style="list-style-type: none"> • In the event that the proposed resource has been continuously contracted to the same organization for the last five (5) years to the present, then two (2) separate sub-project references will be accepted. <ul style="list-style-type: none"> ○ Client references must be current employees of the organization. • Each client reference cited must have level of work effort greater than (>) six (6) months within the five (5) year period from the date of bid closing. The duration of projects that span as well as fall outside of the five (5) year period will only be evaluated for the duration falling within the five (5) year period. <p>Each client reference cited must include the following information:</p> <ul style="list-style-type: none"> • the client organization; • the project name; • the exact contract start and end dates; • level of work effort; • a brief description of the project and the work performed; <p>NOTE: Bidders must include the brief description/tasks in the technical grid response <u>or</u> map the description/tasks in the proposed resource's c.v.</p> <p>and</p> <ul style="list-style-type: none"> • the client contact information: <ul style="list-style-type: none"> ○ (employee) name; ○ title; 	<p>Provide examples of 2 client references for which the proposed resource acted in the role of a Web Developer/User Interface Developer.</p>

	<ul style="list-style-type: none"> ○ Telephone number and/or email address of the client's technical/project authority. <p>NOTE: Failure on the part of the Bidder to provide accurate and current contact information may result in the Bidder's Proposal being deemed non-compliant and being given no further consideration in the evaluation process. The onus is on the Bidder to provide current and accurate client reference information.</p>	
M4	<p>The bidder must demonstrate in their proposal that the proposed resource must have a minimum of seven (7) years professional work experience as a Web Developer within the last twelve (12) years from the date of bid closing developing prototypes/mock-ups of user interfaces.</p>	<p>Provide examples of projects for which the proposed resource has professional work experience developing prototypes/mock-ups of user interfaces.</p> <p>To provide context, Bidders must include a description the prototypes/mock-ups of the user interface and all related components.</p> <p>The sum of all the examples must equal or exceed 7 years.</p>
M5	<p>The bidder must demonstrate in their proposal that the proposed resource has a minimum of seven (7) years professional work experience within the last twelve (12) years from the date of bid closing developing user interfaces using JavaScript.</p>	<p>Provide examples of projects for which the proposed resource has professional work experience developing user interfaces using JavaScript.</p> <p>To provide context, Bidders must indicate how they used JavaScript to develop the user interfaces.</p> <p>The sum of all the examples must equal or exceed 7 years.</p>
M6	<p>The bidder must demonstrate in their proposal that the proposed resource has a minimum of seven (7) years professional work experience within the last twelve (12) years from the date of bid closing</p>	<p>Provide examples of projects for which the proposed resource has professional work experience programming user interfaces with CSS-based layouts using CSS 3.0+.</p>

	programming user interfaces with CSS-based layouts using CSS 3.0+.	<p><i>To provide context, Bidders must indicate how they used CSS 3.0+ layouts to program user interfaces.</i></p> <p>The sum of all the examples must equal or exceed 7 years.</p>
M7	The bidder must demonstrate in their proposal that the proposed resource has a minimum of five (5) years professional work experience within the last eight (8) years from the date of bid closing programming user interfaces for web applications using HTML 5+.	<p>Provide examples of projects for which the proposed resource has professional work experience programming user interfaces for web applications (i.e. web-forms) using HTML 5+.</p> <p><i>To provide context, Bidders must indicate how they used HTML5+ to program user interfaces and a description of the type of user interfaces developed.</i></p> <p>The sum of all the examples must equal or exceed 5 years.</p>
M8	The bidder must demonstrate in their proposal that the proposed resource has a minimum of three (3) years professional work experience within the last five (5) years from the date of bid closing developing user interfaces using Angular and/or AngularJS and/or React and/or Vue.js.	<p>Provide examples of projects for which the proposed resource has professional work experience developing using interfaces using Angular, React, or Vue.js.</p> <p><i>To provide context, Bidders must indicate how they used Angular and/or AngularJS and/or React and/or Vue.js. to develop the user interfaces.</i></p> <p>The sum of all the examples must equal or exceed 3 years.</p>

Point Rated Criteria

Criteria #	<p style="text-align: center;">Stream 1 – Applications Services A.14 – Web Developer - Level 3</p> <p style="text-align: center;">Point-Rated Criteria</p>	<p style="text-align: center;">Required Supporting Information</p>	<p style="text-align: center;">Max Points</p>
<p>PR1</p>	<p>Demonstrated professional work experience incorporating Web Content Accessibility Guidelines (WCAG) in web application design.</p> <p>>7 years = 10 points</p> <p>>6 years up to 7 years = 8 points</p> <p>>5 years up to 6 years = 6 points</p> <p>>4 years up to 5 years = 4 points</p> <p>>3 years up to 4 years = 2 points</p> <p>≤3 years = 0 points</p>	<p>Provided examples of projects for which the proposed resource has professional work experience incorporating Web Content Accessibility Guidelines (WCAG) in web application design.</p> <p><i>To provide context, Bidders must cite how and where the resource incorporated WCAG into the web application design. Stating only that the resource applied, incorporated or followed WCAG in web application design is insufficient to demonstrate the criterion.</i></p>	<p style="text-align: center;">10 points</p>
<p>PR2</p>	<p>Demonstrated professional work experience as a WEB Developer designing web applications using the Treasury Board WET (Web Experience Toolkit).</p> <p>>7 years = 10 points</p> <p>>6 years up to 7 years = 8 points</p> <p>>5 years up to 6 years = 6 points</p> <p>>4 years up to 5 years = 4 points</p> <p>>3 years up to 4 years = 2 points</p> <p>≤3 years = 0 points</p>	<p>Provide examples of projects for which the proposed resource demonstrated professional work experience developing web applications using the Treasury Board WET (Web Experience Toolkit).</p> <p><i>To provide context, Bidders must cite how and where the resource used Treasury Board WET during the web application design. Stating only that the resource applied, incorporated or followed Treasury Board WET in web application design is</i></p>	<p style="text-align: center;">10 points</p>

		<i>insufficient to demonstrate the criterion.</i>	
PR3	<p>Demonstrated professional work experience developing user interfaces on web applications in support of business processes that are:</p> <ul style="list-style-type: none"> a. Transactional/decision b. Forms-based c. Multi-step <p>>7 years = 10 points</p> <p>>6 years up to 7 years = 8 points</p> <p>>5 years up to 6 years = 6 points</p> <p>>4 years up to 5 years = 4 points</p> <p>>3 years up to 4 years = 2 points</p> <p>≤3 years = 0 points</p> <p>Notes:</p> <ul style="list-style-type: none"> ○ Each bullet cited within a project in the résumé must follow the following format (PR3a to PR3c). ○ All standards must be included in the overall technical response. 	<p>Provide examples of projects for which the proposed resource demonstrated professional work experience developing user interfaces on web applications in support of transactional/decision, forms-based, multi-step business processes.</p> <p><i>To provide context, Bidders must include a description of how the web applications supported transactional/decision, forms-based, multi-step business processes as well as a description of the user interfaces.</i></p>	10 points
PR4	<p>Demonstrated professional work experience developing flowcharts (web site flow maps) depicting navigation and content.</p> <p>>7 years = 5 points</p> <p>>6 years up to 7 years = 4 points</p> <p>>5 years up to 6 years = 3 points</p> <p>>4 years up to 5 years = 2 points</p> <p>>3 years up to 4 years = 1 point</p> <p>≤3 years = 0 points</p>	<p>Provide examples of projects for which the proposed resource demonstrated professional work experience developing flowcharts (web site flow maps) depicting navigation and content.</p> <p><i>To provide context, Bidders must include a description of how the flowchart was developed.</i></p>	5 points
PR5	<p>Demonstrated professional work experience developing graphics for the web using Adobe Fireworks and/or Adobe Photoshop.</p>	<p>Provide examples of projects for which the proposed resource demonstrated professional work experience developing graphics for the web using Adobe</p>	5 points

	<p>>7 years = 5 points</p> <p>>6 years up to 7 years = 4 points</p> <p>>5 years up to 6 years = 3 points</p> <p>>4 years up to 5 years = 2 points</p> <p>>3 years up to 4 years = 1 point</p> <p>≤3 years = 0 points</p>	<p>Fireworks and/or Adobe Photoshop.</p> <p><i>To provide context, Bidders must include a description of the type of graphics developed using Adobe Fireworks and/or Adobe Photoshop.</i></p>	
PR6	<p>Demonstrated professional work experience using a Version Control System when developing user interfaces on web applications (such as GIT, Mercurial, Visual Source Safe, CVS, SVN).</p> <p>>7 years = 5 points</p> <p>>6 years up to 7 years = 4 points</p> <p>>5 years up to 6 years = 3 points</p> <p>>4 years up to 5 years = 2 points</p> <p>>3 years up to 4 years = 1 point</p> <p>≤3 years = 0 points</p>	<p>Provide examples of projects for which the proposed resource demonstrated professional work experience using a Version Control System when developing user interfaces on web applications (such as GIT, Mercurial, Visual Source Safe, CVS, SVN).</p>	5 points
PR7	<p>Demonstrated professional work experience developing dynamic user interfaces in an IDE (Integrated Development Environment).</p> <p>>7 years = 5 points</p> <p>>6 years up to 7 years = 4 points</p> <p>>5 years up to 6 years = 3 points</p> <p>>4 years up to 5 years = 2 points</p> <p>>3 years up to 4 years = 1 point</p> <p>≤3 years = 0 points</p>	<p>Provide examples of projects for which the proposed resource has professional work experience developing dynamic user interfaces in an IDE (Integrated Development Environment).</p> <p><i>To provide context, Bidders must provide a description of the type of dynamic users interfaces developed in the IDE.</i></p>	5 points
PR8	<p>Demonstrated professional work experience using automated front end testing.</p> <p>>7 years = 5 points</p> <p>>6 years up to 7 years = 4 points</p> <p>>5 years up to 6 years = 3 points</p>	<p>Provide examples of projects for which the proposed resource has professional work experience designing user interfaces for mobile applications.</p> <p><i>To provide context, Bidders must provide a description of how the resource used</i></p>	5 points

	<p>>4 years up to 5 years = 2 points</p> <p>>3 years up to 4 years = 1 point</p> <p>≤3 years = 0 points</p>	<p><i>automated front end testing in developing user interfaces.</i></p>	
PR9	<p>Demonstrated professional work experience developing mobile UI for iOS or Android (either native or HTML5/CSS).</p> <p>>3 years = 5 points</p> <p>>2 years 6 months up to 3 years = 4 points</p> <p>>2 years up to 2 years 6 months = 3 points</p> <p>>1 year 6 months up to 2 years = 2 points</p> <p>>1 year up to 1 year 6 months = 1 point</p> <p>≤1 year = 0 points</p>	<p>Provide examples of projects for which the proposed resource has professional work experience developing mobile UI for iOS or Android (either native or HTML5/CSS).</p> <p><i>To provide context, Bidders must provide a description of the development and types of mobile UI's.</i></p>	5 points
PR10	<p>Demonstrated professional work experience applying/utilizing an Agile Software Development Life Cycle (SDLC) methodology as part of a collaborative team.</p> <p>2 projects = 5 points</p> <p>1 project = 2 points</p> <p>Note: Each project cited must have a duration of greater than six (6) months.</p>	<p>Provide examples of projects for which the proposed resource demonstrated professional work experience applying/utilizing an Agile Software Development Life Cycle (SDLC) methodology as part of a collaborative team.</p> <p><i>To provide context, bidders must provide a description of how the resource designed and developed applications based on defined requirements applying/utilizing an Agile SDLC methodology.</i></p>	5 points
		<p>80% Required to pass</p> <p>Resource Requirements Total</p>	<p>= 52 points</p> <p>= 65 points</p>