

## Advance Contract Award Notice – (20-58067)

Two copies of a custom electronic card as well as control software that will be used in the prototype laser optical spectroscopy instrument

### **Advance Contract Award Notice (ACAN):**

- An ACAN is a public notice indicating to the supplier community that a department or agency intends to award a contract for goods, services or construction to a pre-identified supplier, thereby allowing other suppliers to signal their interest in bidding, by submitting a statement of capabilities. If no supplier submits a statement of capabilities that meets the requirements set out in the ACAN, on or before the closing date stated in the ACAN, the contracting officer may then proceed with the award to the pre-identified supplier.

### **Definition of the Requirement:**

The National Research Council of Canada is currently developing an instrument to perform ore sorting on conveyor by laser spectroscopy. The objective of the contract is to deliver two copies of a custom electronic card as well as a control software that will be used in the prototype instrument. The scope of work consists of:

- Review and finalize the software and hardware architecture of the instrument and its accessories;
- Review and finalize the software and electronic design of the instrument;
- Document the manufacturing, electronic diagrams and test plan of the main electronic board (control board) which includes, among other things, a microcontroller and an FPGA;
- Make two copies of electronic boards including the FPGA programming;
- Program the instrument control software based on the design made by the National Research Council of Canada.

### **(Minimum Essential Requirements) Statement of Capabilities:**

- The company must have significant experience (at least 10 years) in the electrical engineering services applied to product development. More specifically, the company must:
  - Perform design and prototyping of electronic circuits meeting standard IEC 61010;
  - Perform embedded software development (Firmware) using VHDL language for FPGA control;
- The company must have significant experience (at least 10 years) in industrial design for hardware product development.
- Have in his team an electrical engineer who is a member of a professional order (Ordre des ingénieurs du Québec or equivalent) with significant professional experience of at least 10 years.
- The company must have significant experience (at least 10 years) in the software engineering services applied to Applicative and WEB development. More specifically, the company must:
  - Develop Applicative and WEB software for instrument control using local and/or remote hardware devices;

- Develop Applicative and WEB software allowing connection to databases, and/or remote servers;
- Use the AGILE management methodology applied to software development;;
- The company must have significant and recognized experience in user experience (UX) design for software product development.
- The company must use an ISO certified quality management system, applicable to the design and development of instruments such as ISO 9001:2005, ISO 13485:2016 or equivalent.

**Sole Source - Provisions in accordance with the Government Contracts Regulations (GCRs)**

- Only one firm is capable of performing the contract

**Applicability of the trade agreement(s) to the procurement**

This Procurement is subject to the following trade agreement(s)

- CFTA/CCFTA/CCOFTA/CHFTA/CPAFTA/CKFTA

**Limited Tendering Provisions in accordance with the trade agreements:**

(CFTA Exemptions) article 513: Limited Tendering – in so far as is strictly necessary where, for reasons of extreme urgency brought by events unforeseeable by the entity, the goods or services could not be obtained in time by means of open or selective tendering procedures.

**Justification for the Pre-Identified Supplier:**

- NOVO is a unique company providing a service combining industrial design, user experience (UX) and engineering know-how for product development purposes. The current mandate requires the mastery of these three disciplines, and NOVO is the only company offering these services under one roof.

**Ownership of Intellectual Property:**

- Canada intends to retain ownership of any Foreground Intellectual Property arising out of the proposed contract on the basis that the main purpose of the contract is to deliver a not-yet fully developed component or subsystem that will be incorporated into a complete system at a later date, as a prerequisite to the planned transfer of the complete system to the private sector, through licensing or assignment of ownership, for the purposes of Commercial Exploitation.

**Period of the proposed contract or delivery date**

Oct 16, 2020 to March 31, 2021

**Cost estimate of the proposed contract**

- The estimated value of the contract is 174 600.00\$ (GST/HST extra).

**Name and address of the pre-identified supplier**

NOVO  
1505 Rue Royale  
Trois-Rivières (QC)  
G9A 4J9

**Suppliers' right to submit a statement of capabilities**

- Suppliers who consider themselves fully qualified and available to provide the goods, services or construction services described in the ACAN may submit a statement of capabilities in writing to the contact person identified in this notice on or before the closing date of this notice. The statement of capabilities must clearly demonstrate how the supplier meets the advertised requirements.

**Closing date:** Wednesday Oct 14, 2020 (2pm EDT)

**Inquiries and submission of statements of capabilities are to be directed to:**

Simon Riendeau, Procurement Supervisor Eastern Region  
National Research Council Canada  
6100 Royalmount Ave Montreal, Qc H4P 2R2  
Phone: 438-340-1248 - Email: [Simon.Riendeau@cnrc-nrc.gc.ca](mailto:Simon.Riendeau@cnrc-nrc.gc.ca)