

Solicitation # 18-22006 – Aerodynamics Laboratory Technical Support Consultant

1. An **Advance Contract Award Notice (ACAN)** allows departments and agencies to post a notice, for no less than fifteen calendar days, indicating to the supplier community that it intends to award a good, service or construction contract to a pre-identified contractor. If no other supplier submits, on or before the closing date, a statement of capabilities that meets the requirements set out in the ACAN, the competitive requirements of the government's contracting policy have been met. Following notification to suppliers not successful in demonstrating that their statement of capabilities meets the requirements set out in the ACAN, the contract may then be awarded using the Treasury Board's electronic bidding authorities.

2. Definition of the requirement

- The National Research Council Canada, Aerodynamics Laboratory has a requirement to provide technical support during the deployment of the new DAC system for the upgrade of the Altitude Icing Wind Tunnel. The work will involve the following: Manage and assist with the design and development activities related to the integration of Labview Software and wind tunnel instrumentation; Establish test plans to validate the software; produce documentation; ensure systems are ready for deployment; prepare validation plan; Manage and support decommissioning, installation, commissioning and validation work.

3. Criteria for assessment of the Statement of Capabilities (minimal essential requirements)

- Any interested supplier must demonstrate by way of a statement of capabilities that they meet the following requirements:
 - Certified LabView Developer (CLD certification)
 - 10 years of experience developing Labview applications
 - 5 years of experience developing Labview RT applications
 - 5 years of experience developing .NET assemblies
 - Knowledge of NRC's Altitude Icing Wind Tunnel legacy DAC systems
 - Knowledge of NRC's new wind Tunnel DAC architectures.
 - Experience developing and deploying complex applications for wind tunnel testing facilities
 - Experience developing multi-axis motion applications with Labview Softmotion
 - Experience designing and configuring motion servo system with Kollmorgen hardware
 - Experience designing distributed data acquisition systems
 - Experience designing advance multi-axis motion systems and control theory
 - Experience with Digital Signal Processing algorithms and theory

- Experience with Matlab and data reduction algorithms for aerodynamic analysis
- Experience with software version control and bug tracking tools
- Experience with wind tunnel testing
- Bachelor degree in Computer or System engineering
- Ontario Professional Engineer

4. This procurement is subject to the following trade agreement(s)
North American Free Trade Agreement (NAFTA)

5. Justification for the Pre-Identified Supplier

- The pre-identified supplier has several years of experience at the NRC wind tunnels developing data acquisition software in Labview. The pre-identified supplier has extensive knowledge of the complex systems that will be put in place as part of this critical facility upgrade. The pre-identified supplier has extensive knowledge of the wind tunnel where this upgrade will take place.

6. Exclusions and/or Limited Tendering Reasons: Only one vendor is able to satisfy the unique technical requirements listed herein.

- North American Free Trade Agreement (NAFTA) – Article(s) where, for works of art, or for reasons connected with the protection of patents, copyrights or exclusive rights, or proprietary information or where there is an absence of competition for technical reasons, the goods or service can be supplied only by a particular supplier and no reasonable alternative or substitute exists.

7. Ownership of Intellectual Property: Ownership of any Foreground Intellectual Property arising out of the proposed contract will vest in the Contractor.

8. Period of the proposed contract or delivery date

- The proposed contract is from June 2018 to June 2019. The National Research Council reserves the right to negotiate 2 additional option years

9. Cost estimate of the proposed project

- The estimated value of the contract, including option (s) is up to \$300,000.00 CAD

10. Name and address of the pre-identified supplier

Gibeault Solutions
CODA Consulting
1403 Clay Court
Ottawa, Ontario

11. Suppliers right to submit a statement of capabilities

- Suppliers who consider themselves fully qualified and available to provide the services/goods described herein, 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 all of the advertised requirements.

12. Closing date for the submission of a statement of capabilities

- May 21, 2018.

13. Inquiries and submission of statement of capabilities

Directed to: Steve Cassidy

Telephone: 613-993-0851

E-mail: Steve.Cassidy@nrc-cnrc.gc.ca