

RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:
Public Works and Government Services Canada
Telus Plaza North/Plaza Telus Nord
10025 Jasper Ave./10025 ave. Jaspe
5th floor/5e étage
Edmonton
Alberta
T5J 1S6
Bid Fax: (780) 497-3510

REQUEST FOR PROPOSAL
DEMANDE DE PROPOSITION

**Proposal To: Public Works and Government
Services Canada**

We hereby offer to sell to Her Majesty the Queen in right of Canada, in accordance with the terms and conditions set out herein, referred to herein or attached hereto, the goods, services, and construction listed herein and on any attached sheets at the price(s) set out therefor.

**Proposition aux: Travaux Publics et Services
Gouvernementaux Canada**

Nous offrons par la présente de vendre à Sa Majesté la Reine du chef du Canada, aux conditions énoncées ou incluses par référence dans la présente et aux annexes ci-jointes, les biens, services et construction énumérés ici sur toute feuille ci-annexée, au(x) prix indiqué(s).

Comments - Commentaires

Title - Sujet Appearance Based Slam	
Solicitation No. - N° de l'invitation W7702-115043/A	Date 2010-07-30
Client Reference No. - N° de référence du client W7702-11-5043	
GETS Reference No. - N° de référence de SEAG PW-\$EDM-002-8486	
File No. - N° de dossier EDM-0-32276 (002)	CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2010-08-24	
Time Zone Fuseau horaire Mountain Daylight Saving Time MDT	
F.O.B. - F.A.B. Plant-Usine: <input type="checkbox"/> Destination: <input checked="" type="checkbox"/> Other-Autre: <input type="checkbox"/>	
Address Enquiries to: - Adresser toutes questions à: Scott, Jasmine	Buyer Id - Id de l'acheteur edm002
Telephone No. - N° de téléphone (780) 497-3578 ()	FAX No. - N° de FAX (780) 497-3510
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction: DEPARTMENT OF NATIONAL DEFENCE DEFENCE R&D CANADA SUFFIELD BLDG 560, RECEIVING CFB SUFFIELD RALSTON ALBERTA T0J2N0 CANADA	

Instructions: See Herein

Instructions: Voir aux présentes

Vendor/Firm Name and Address
**Raison sociale et adresse du
fournisseur/de l'entrepreneur**

Issuing Office - Bureau de distribution
Public Works and Government Services Canada
Telus Plaza North/Plaza Telus Nord
10025 Jasper Ave./10025 ave Jasper
5th floor/5e étage
Edmonton
Alberta
T5J 1S6

Delivery Required - Livraison exigée See Herein	Delivery Offered - Livraison proposée
Vendor/Firm Name and Address Raison sociale et adresse du fournisseur/de l'entrepreneur	
Telephone No. - N° de téléphone Facsimile No. - N° de télécopieur	
Name and title of person authorized to sign on behalf of Vendor/Firm (type or print) Nom et titre de la personne autorisée à signer au nom du fournisseur/ de l'entrepreneur (taper ou écrire en caractères d'imprimerie)	
Signature	Date

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TITLE: Appearance Based Slam for Indoor/Outdoor Urban Terrain**PART 1 - GENERAL INFORMATION****1. Introduction**

The bid solicitation and resulting contract document is divided into six (6) parts plus annexes as follows:

Part 1 General Information: provides a general description of the requirement;

Part 2 Bidder Instructions: provides the instructions, clauses and conditions applicable to the bid solicitation and states that the Bidder agrees to be bound by the clauses and conditions contained in all parts of the bid solicitation;

Part 3 Bid Preparation Instructions: provides bidders with instructions on how to prepare their bid;

Part 4 Evaluation Procedures and Basis of Selection: indicates how the evaluation will be conducted, the evaluation criteria that must be addressed in the bid, if applicable, and the basis of selection;

Part 5 Certifications: includes the certifications to be provided;

Part 6 Resulting Contract Clauses: includes the clauses and conditions that will apply to any resulting contract.

The Annexes include the Statement of Work, the Basis of Payment, Disclosures Certification and Mandatory Criteria, Evaluation Criteria and Selection Method.

2. Summary

Defence Research and Development Canada - Suffield objective of this project is the research and development of real-time Appearance-Based Simultaneous Localization and Mapping system for day/night operations in indoor and outdoor environments.

The period of the Contract is thirty three (33) months from date of award of Contract.

The requirement is limited to Canadian goods and/or services.

3. Communications Notification

As a courtesy, the Government of Canada requests that successful bidders notify the Contracting Authority in advance of their intention to make public an announcement related to the award of a contract.

4. Debriefings

After contract award, bidders may request a debriefing on the results of the bid solicitation. Bidders should make the request to the Contracting Authority within 15 working days of receipt of notification that their bid was unsuccessful. The debriefing may be provided in writing, by telephone or in person.

5. Maximum Funding

The maximum funding available for the Contract resulting from the bid solicitation is \$219,300.00 (Goods and Services Tax or Harmonized Sales Tax extra, as appropriate). Bids valued in excess of this amount will be considered non-responsive. This disclosure does not commit Canada to pay the maximum funding available.

PART 2 - BIDDER INSTRUCTIONS

1. Standard Instructions, Clauses and Conditions

All instructions, clauses and conditions identified in the bid solicitation by number, date and title are set out in the Standard Acquisition Clauses and Conditions Manual issued by Public Works and Government Services Canada. (<http://ccua-sacc.tpsgc-pwgsc.gc.ca/pub/acho-eng.jsp>)

Bidders who submit a bid agree to be bound by the instructions, clauses and conditions of the bid solicitation and accept the clauses and conditions of the resulting contract.

The 2003 (2010-01-11) Standard Instructions - Goods or Services - Competitive Requirements, are incorporated by reference into and form part of the bid solicitation.

2. Submission of Bids

Bids must be submitted only to Public Works and Government Services Canada (PWGSC) Bid Receiving Unit by the date, time and place indicated on page 1 of the bid solicitation.

Due to the nature of the bid solicitation, bids transmitted by facsimile or electronic mail to PWGSC will not be accepted.

3. Enquiries - Bid Solicitation

All enquiries must be submitted in writing to the Contracting Authority no later than five (5) calendar days before the bid closing date. Enquiries received after that time may not be answered.

Bidders should reference as accurately as possible the numbered item of the bid solicitation to which the enquiry relates. Care should be taken by bidders to explain each question in sufficient detail in order to enable Canada to provide an accurate answer. Technical enquiries that are of a proprietary nature must be clearly marked "proprietary" at each relevant item. Items identified as "proprietary" will be treated as such except where Canada determines that the enquiry is not of a proprietary nature. Canada may edit the questions or may request that the Bidder do so, so that the proprietary nature of the question is eliminated, and the enquiry can be answered with copies to all bidders. Enquiries not submitted in a form that can be distributed to all bidders may not be answered by Canada.

4. Applicable Laws

Any resulting contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in Alberta.

Bidders may, at their discretion, substitute the applicable laws of a Canadian province or territory of their choice without affecting the validity of their bid, by deleting the name of the Canadian province or territory specified and inserting the name of the Canadian province or territory of their choice. If no change is made, it acknowledges that the applicable laws specified are acceptable to the bidders.

5. Basis for Canada's Ownership of Intellectual Property

Defence Research and Development Canada (DRDC) has determined that any intellectual property arising from the performance of the Work under the Contract will vest in Canada. DRDC is exempted from the Treasury Board "Policy on Title to Intellectual Property Arising Under Crown Procurement Contracts" approved 1 June 2000 as per DRDC ADM (S&T) IP-02.

PART 3 - BID PREPARATION INSTRUCTIONS

1. Bid Preparation Instructions

1.1 Canada requests that bidders provide their bid in separately bound sections as follows:

Section I: Technical Bid (3 hard copies)
Section II: Management Bid (3 hard copies)
Section III: Financial Bid (2 hard copies)
Section IV: Certifications (1 hard copy)

Prices must appear in the Financial bid only. No prices must be indicated in any other section of the bid.

Canada requests that bidders follow the format instructions described below in the preparation of their bid:

- (a) use 8.5 x 11 inch (216 mm x 279 mm) paper;
- (b) use a numbering system that corresponds to the bid solicitation;

Section I: Technical Bid

In their technical bid, bidders should demonstrate their understanding of the requirements contained in the bid solicitation and explain how they will meet these requirements. Bidders should demonstrate their capability and describe their approach in a thorough, concise and clear manner for carrying out the work.

The technical bid should address clearly and in sufficient depth the points that are subject to the evaluation criteria against which the bid will be evaluated. Simply repeating the statement contained in the bid solicitation is not sufficient. In order to facilitate the evaluation of the bid, Canada requests that bidders address and present topics in the order of the evaluation criteria under the same headings. To avoid duplication, bidders may refer to different sections of their bids by identifying the specific paragraph and page number where the subject topic has already been addressed.

Section II: Management Bid

In their management bid, bidders must describe their capability and experience, the project management team and provide client contact(s).

Section III: Financial Bid

Bidders must submit their financial bid in accordance with the Basis of Payment in Annex "B". The total amount of Goods and Services Tax or Harmonized Sales Tax must be shown separately, if applicable.

Section IV: Certifications

Bidders must submit the certifications required under Part 5.

PART 4 - EVALUATION PROCEDURES AND BASIS OF SELECTION

1. Evaluation Procedures

- (a) Bids will be assessed in accordance with the entire requirement of the bid solicitation including the technical, management and financial evaluation criteria.
- (b) An evaluation team composed of representatives of Canada will evaluate the bids.

1.1 Technical/Management Evaluation

Mandatory and point rated technical evaluation criteria are included in Annex "D".

1.2 Financial Evaluation

Financial evaluation will be based on total firm price proposed in Annex "B".

2. Basis of Selection - Highest Rated Within Budget

1. To be declared responsive, a bid must:

- (a) comply with all the requirements of the bid solicitation;
- (b) meet all mandatory technical evaluation criteria; and
- (c) obtain the required minimum points for the technical evaluation criteria which are subject to point rating.

2. Bids not meeting (a) or (b) or (c) will be declared non responsive. The responsive bid with the highest number of points will be recommended for award of a contract, provided that the total evaluated price does not exceed the budget available for this requirement.

PART 5 - CERTIFICATIONS

Bidders must provide the required certifications to be awarded a contract. Canada will declare a bid non-responsive if the required certifications are not completed and submitted as requested.

Compliance with the certifications bidders provide to Canada is subject to verification by Canada during the bid evaluation period (before award of a contract) and after award of a contract. The Contracting Authority will have the right to ask for additional information to verify the bidders' compliance with the certifications before award of a contract. The bid will be declared non-responsive if any certification made by the Bidder is untrue, whether made knowingly or unknowingly. Failure to comply with the certifications or to comply with the request of the Contracting Authority for additional information will also render the bid non-responsive.

1. Certifications Precedent to Contract Award

The certifications listed below should be submitted with the bid but may be completed and submitted afterwards. If any of these required certifications is not completed or submitted as requested, the Contracting Authority will so inform the Bidder and provide the Bidder with a time frame within which to meet the requirement. Failure to comply with the request of the Contracting Authority and meet the requirement within that time period will render the bid non-responsive.

1.1 Federal Contractors Program - \$200,000 or more

1. The Federal Contractors Program (FCP) requires that some suppliers, including a supplier who is a member of a joint venture, bidding for federal government contracts, valued at \$200,000 or more (including all applicable taxes), make a formal commitment to implement employment equity. This is a condition precedent to contract award. If the Bidder, or, if the Bidder is a joint venture and if any member of the joint venture, is subject to the FCP, evidence of its commitment must be provided before the award of the Contract.

Suppliers who have been declared ineligible contractors by Human Resources and Skills Development Canada (HRSDC) are no longer eligible to receive government contracts over the threshold for solicitation of bids as set out in the Government Contracts Regulations. Suppliers may be declared ineligible contractors either as a result of a finding of non-compliance by HRSDC, or following their voluntary withdrawal from the FCP for a reason other than the reduction of their workforce to less than 100 employees. Any bids from ineligible contractors, including a bid from a joint venture that has a member who is an ineligible contractor, will be declared non-responsive.

2. If the Bidder does not fall within the exceptions enumerated in 3.(a) or (b) below, or does not have a valid certificate number confirming its adherence to the FCP, the Bidder must fax (819-953-8768) a copy of the signed form LAB 1168, Certificate of Commitment to Implement Employment Equity, to the Labour Branch of HRSDC.

3. The Bidder, or, if the Bidder is a joint venture the member of the joint venture, certifies its status with the FCP, as follows:

The Bidder or the member of the joint venture

- (a) () is not subject to the FCP, having a workforce of less than 100 full-time or part-time permanent employees, or temporary employees having worked 12 weeks or more in Canada;
- (b) () is not subject to the FCP, being a regulated employer under the Employment Equity Act, S.C. 1995, c. 44;
- (c) () is subject to the requirements of the FCP, having a workforce of 100 or more full-time or part-time permanent employees, or temporary employees having worked 12 weeks or more in Canada, but has not previously obtained a certificate number from HRSDC (having not bid on requirements of \$200,000 or more), in which case a duly signed certificate of commitment is attached;
- (d) () is subject to the FCP, and has a valid certificate number as follows: _____ (e.g. Has not been declared an ineligible contractor by HRSDC.)

Further information on the FCP is available on the HRSDC Web site.

1.2 Former Public Servant Certification

Contracts with former public servants (FPS) in receipt of a pension or of a lump sum payment must bear the closest public scrutiny and reflect fairness in the spending of public funds. In order to comply with Treasury Board policies and directives on contracts with FPS, bidders must provide the information required below.

Definitions

For the purposes of this clause,

"former public servant" is any former member of a department as defined in the Financial Administration Act, R.S., 1985, c. F-11, a former member of the Canadian Armed Forces or a former member of the Royal Canadian Mounted Police. A former public servant may be:

- (a) an individual;
- (b) an individual who has incorporated;
- (c) a partnership made of former public servants; or
- (d) a sole proprietorship or entity where the affected individual has a controlling or major interest in the entity.

"lump sum payment period" means the period measured in weeks of salary, for which payment has been made to facilitate the transition to retirement or to other employment as a result of the implementation of various programs to reduce the size of the Public Service. The lump sum payment period does not include the period of severance pay, which is measured in a like manner.

"pension" means, in the context of the fee abatement formula, a pension or annual allowance paid under the Public Service Superannuation Act (PSSA), R.S., 1985, c. P-36, and any increases paid pursuant to the Supplementary Retirement Benefits Act, R.S., 1985, c. S-24 as it affects the PSSA. It does not include pensions payable pursuant to the Canadian Forces Superannuation Act, R.S., 1985, c. C-17, the Defence Services Pension Continuation Act, 1970, c. D-3, the Royal Canadian Mounted Police Pension Continuation Act, 1970, c. R-10, and the Royal Canadian Mounted Police Superannuation Act, R.S., 1985, c. R-11, the Members of Parliament Retiring Allowances Act, R.S., 1985, c. M-5, and that portion of pension to the Canada Pension Plan Act, R.S., 1985, c. C-8.

Former Public Servant in Receipt of a Pension

Is the Bidder a FPS in receipt of a pension as defined above? YES () NO ()

If so, the Bidder must provide the following information:

- (a) name of former public servant;
- (b) date of termination of employment or retirement from the Public Service.

A contract for the services of a FPS who has been retired for less than one year and who is in receipt of a pension as defined above is subject to a fee reduction (abatement formula) as required by Treasury Board Policy.

Work Force Reduction Program

Is the Bidder a FPS who received a lump sum payment pursuant to the terms of a work force reduction program? YES () NO ()

If so, the Bidder must provide the following information:

- (a) name of former public servant;
- (b) conditions of the lump sum payment incentive;
- (c) date of termination of employment;
- (d) amount of lump sum payment;
- (e) rate of pay on which lump sum payment is based;
- (f) period of lump sum payment including start date, end date and number of weeks;
- (g) number and amount (professional fees) of other contracts subject to the restrictions of a work force reduction program.

For all contracts awarded during the lump sum payment period, the total amount of fees that may be paid to a FPS who received a lump sum payment is \$5,000, including the Goods and Services Tax or Harmonized Sales Tax.

Certification

By submitting a bid, the Bidder certifies that the information submitted by the Bidder in response to the above requirements is accurate and complete.

1.3 Canadian Content Certification

1.3.1 SACC Manual clause A3050T (2010-01-11), Canadian Content Definition

1.3.2 Canadian Content Certification

This procurement is limited to Canadian services.

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The Bidder certifies that:

() the service offered is a Canadian service as defined in paragraph 2 of clause A3050T.

1.4 Status and Availability of Resources

1.4.1 SACC Manual Clause A3005T (2010-01-11), Status and Availability of Resources

1.5 Education and Experience

1.5.1 SACC Manual Clause A3010T (2007-11-30), Education and Experience

PART 6 - RESULTING CONTRACT CLAUSES

The following clauses and conditions apply to and form part of any contract resulting from the bid solicitation.

1. Statement of Work

The Contractor must perform the Work in accordance with the Statement of Work at Annex "A" and the technical and management portions of the Contractor's bid entitled _____, dated _____.

2. Standard Clauses and Conditions

All clauses and conditions identified in the Contract by number, date and title are set out in the Standard Acquisition Clauses and Conditions Manual issued by Public Works and Government Services Canada (PWGSC). The Manual is available on the PWGSC Website:
<http://sacc.pwgsc.gc.ca/sacc/index-e.jsp>.

2.1 General Conditions

2040 (2010-01-11), General Conditions - Research & Development, apply to and form part of the Contract.

2.2 Supplemental General Conditions

4002 (2008-12-12) Software Development or Modification Services, apply to and form part of the Contract.

2.3 SACC Manual Clause

K3410C (2008-12-12), Canada to Own Intellectual Property Rights in Foreground Information apply to and form part of the Contract.

3. Period of Contract

The period of the Contract is thirty three (33) months from date of award of Contract.

4. Authorities

4.1 Contracting Authority

The Contracting Authority for the Contract is:

Jasmine Scott
Supply Specialist
Contracting Services, Western Region
Department of Public Works and Government Services
Telus Plaza North,
10025 Jasper Avenue, 5th Floor
Edmonton, AB T5J 1S6
TELEPHONE NO.: (780) 497-3578
FACSIMILE NO.: (780) 497-3510
E-mail address: jasmine.scott@pwgsc.gc.ca

The Contracting Authority is responsible for the management of the Contract and any changes to the Contract must be authorized in writing by the Contracting Authority. The Contractor must not perform work in excess of or outside the scope of the Contract based on verbal or written requests or instructions from anybody other than the Contracting Authority.

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4.2 Technical Authority

(To be filled in at Contract award)

The Technical Authority for the Contract is:

Name: _____

Title: _____

Organization: _____

Address: _____

Telephone: ____-____-____

Facsimile: ____-____-____

E-mail: _____.

The Technical Authority named above is the representative of the department or agency for whom the Work is being carried out under the Contract and is responsible for all matters concerning the technical content of the Work under the Contract. Technical matters may be discussed with the Technical Authority, however the Technical Authority has no authority to authorize changes to the scope of the Work. Changes to the scope of the Work can only be made through a contract amendment issued by the Contracting Authority.

4.3 Administrative Authority

(To be filled in at Contract award)

Name: _____

Title: _____

Organization: _____

Address: _____

Telephone: ____-____-____

Facsimile: ____-____-____

E-mail: _____.

4.4 Contractor's Representative

(To be filled in by bidder)

Name: _____

Telephone No: _____

Facsimile No: _____

E-mail: _____

5. Payment

5.1 Basis of Payment - Firm Price

In consideration of the Contractor satisfactorily completing all of its obligations under the Contract, the Contractor will be paid a firm price as specified in Annex "B" for a cost of \$ _____. Customs duties are included and Goods and Services Tax or Harmonized Sales Tax is extra, if applicable.

Canada will not pay the Contractor for any design changes, modifications or interpretations of the Work, unless they have been approved, in writing, by the Contracting Authority before their incorporation into the Work.

5.2 Limitation of Price

SACC Manual clause C6000C (2007-05-25) Limitation of Price

5.3 Milestone Payments

1. Canada will make milestone payments in accordance with the Schedule of Milestones detailed in the Contract and the payment provisions of the Contract, up to 90 percent of the amount claimed and approved by Canada if:

- (a) an accurate and complete claim for payment using form PWGSC-WR01, Claim for Progress Payment, and any other document required by the Contract have been submitted in accordance with the invoicing instructions provided in the Contract;
- (b) the total amount for all milestone payments paid by Canada does not exceed 90 percent of the total amount to be paid under the Contract;
- (c) all the certificates appearing on form PWGSC-WR01 have been signed by the respective authorized representatives;
- (d) all work associated with the milestone and as applicable any deliverable required have been completed and accepted by Canada.

2. The balance of the amount payable will be paid in accordance with the payment provisions of the Contract upon completion and delivery of the item if the Work has been accepted by Canada and a final claim for the payment is submitted.

5.4 T1204 - Direct Request by Customer Department

SACC Manual Clause A9117C (2007-11-30), T1204 - Direct Request by Customer Department

6. Invoicing Instructions

6.1 Invoice Instructions - Progress Payments

6.1.1 The Contractor must submit a claim for progress payment using form PWGSC-WR01 to the Administrative Authority.

Each claim must show:

- (a) all information required on form PWGSC-WR01;
- (b) all applicable information detailed under the section entitled "Invoice Submission" of the general conditions;
- (c) expenditures in accordance with the Basis of Payment for the Work performed during the period of the claim;
- (d) holdback of 10 percent;
- (e) total of all previous claims against the Contract and the extension of the totals to date;

Each claim must be supported by:

- (a) a copy of time sheets to support the time claimed;
- (b) two (2) sets of copies of the invoices, receipts, vouchers for all direct expenses, travel and living expenses;
- (c) a copy of the monthly progress report.

6.1.2 Goods and Services Tax (GST) or Harmonized Sales Tax (HST), as applicable, must be calculated on the total amount of the claim before the holdback is applied. At the time the holdback is claimed, there will be no GST/HST payable as it was claimed and payable under the previous claims for progress payments.

6.1.3 The Contractor must prepare and certify one original and two (2) copies of the claim on form PWGSC-WR01, and forward it to the Administrative Authority identified under the section entitled "Authorities" of the Contract for appropriate certification after inspection and acceptance of the Work takes place.

6.1.4 The Contractor must not submit claims until all work identified in the claim is completed.

7. Certifications

7.1 Compliance with the certifications provided by the Contractor in its bid is a condition of the Contract and subject to verification by Canada during the entire contract period. If the Contractor does not comply with any certification or it is determined that any certification made by the Contractor in its bid is untrue, whether made knowingly or unknowingly, Canada has the right, pursuant to the default provision of the Contract, to terminate the Contract for default.

7.2 Disclosures Certification

On completion of the Work, the Contractor must submit to the Technical Authority and to the Contracting Authority a copy of the Disclosure Certification attached as Annex "C" stating that all applicable disclosures were submitted or that there were no disclosures to submit under general conditions 2040.

7.3 SACC Manual Clauses

A3060C (2008-05-12), Canadian Content Certification

8. Applicable Laws

The Contract must be interpreted and governed, and the relations between the parties determined, by the laws in force in the Province of Alberta.

9. Priority of Documents

If there is a discrepancy between the wording of any documents that appear on the list, the wording of the document that first appears on the list has priority over the wording of any document that subsequently appears on the list.

- (a) the Articles of Agreement;
- (b) the supplemental general conditions 4002 (2008-12-12), Software Development or Modification Services;
- (c) the general conditions 2040 (2010-01-11), General Conditions - Research & Development;
- (d) Annex "A", Statement of Work;
- (e) Annex "B", Basis of Payment;
- (f) Annex "C", Disclosures Certification;
- (g) the Contractor's bid dated _____.

10. Defence Contract

SACC Manual Clause A9006C (2008-05-12), Defence Contract

11. Foreign Nationals (Canadian Contractor)

SACC Manual Clause A2000C (2006-06-16), Foreign Nationals (Canadian Contractor)

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12. Insurance

SACC Manual Clause G1005C (2008-05-12), Insurance

13. SACC Manual Clause

A9062C (2010-01-11), Canadian Forces Site Regulations

ANNEX "A"

STATEMENT OF WORK

1. **Title:**

Appearance Based SLAM for Indoor/Outdoor Urban Terrain

2. **Background:**

The Autonomous Intelligent Systems Section of Defence R&D Canada – Suffield investigates localization and mapping techniques for Unmanned Ground Vehicles (UGV) to support the Canadian Forces. One technique of interest is Simultaneous Localization and Mapping (SLAM), which attempts to correct for errors in the UGVs pose estimate by detecting and re-observing unique landmarks in the environment. The position of these landmarks act as geometric constraints used to improve the robot pose estimate. The improved robot pose estimate is used to improve the pose estimate of the landmarks themselves. Online SLAM techniques such as Extended Kalman Filtering are subject to failure, especially over large areas, due to linearization errors, and improper data associations (determining matches between features in successive sensor readings)[1][2]. Traditional “loop closing” techniques can alleviate some of these problems when a previously explored area is revisited, though these techniques can fail as well since they too rely on geometric constraints and landmark pose estimates that are subject to the same linearization and data association errors as the main algorithm.

A new family of techniques called Appearance-Based SLAM (ASLAM) has recently been developed that decouples the loop closing process from the SLAM algorithm and runs it in parallel [3],[4],[5],[6]. Here, the loop closing process is essentially a scene recognition computer vision task. In this way, loop recognition is not bound to the pose estimates of the SLAM procedure and hence not prone to failure resulting from gross errors in the robot pose estimate. For practical tasks, such as robot navigation, “loop closing” data must be used to update the geometric SLAM formulation and techniques have been developed to compute the transform necessary to close the loop.

This contract will develop a multi-sensor ASLAM system using a combination of imagery, laser, and radar. The system must work in both indoor and outdoor terrain under varying conditions including nighttime operation. The system must also be rotation invariant and robust to changes in illumination. A method for integrating the ASLAM results with a traditional feature based SLAM system must also be developed.

3. **Objective:**

The objective of this contract is the research and development of real-time Appearance-Based Simultaneous Localization and Mapping system for day/night operations in indoor and outdoor environments. These algorithms will perform place recognition based on sensor data gathered from a UGV as it travels through the environment. When the vehicle returns to a previously visited scene, the ASLAM algorithm will recognize the scene, update its internal representation, report this to the UGV, and finally provide a mechanism for closing the loop with geometric SLAM. The system must be capable of running in real-time in a variety of test conditions.

4. **Scope of Work:**

4.1 System Requirements

This section outlines the requirements for the completed system to be developed in the contract. Due to the nature of R&D it is anticipated that the requirements may change during the course of

the contract. Any change in the requirements must be discussed and agreed upon by the Technical Authority and the Contractor.

4.1.1 Real-time operation

-The system must be capable of providing an ASLAM scene recognition estimate at not less than 1Hz on a medium grade desktop computer. This means that at least once per second the system must output a result determining if the UGV is viewing a new scene or is revisiting a previous location. The system shall be tunable to allow faster or slower update rates if necessary. If specialized hardware is required for the system, it must have a physical volume of 20 cm cubed or less.

-The above requirement does not pertain to any offline computation or learning that may be necessary to produce a model for use by the run-time system.

4.1.2 Multi-sensor ASLAM

-The ASLAM system must work with the following 3 sensor types:

- color video (omnidirectional video is optional)
- Lidar
- Radar.

-The system must work with each sensor by itself or any combination of the 3 sensors.

-The Contractor may use their own sensory data, but DRDC will also provide datasets for testing and for evaluation of the milestones.

-GPS will be available in the datasets for validation purposes only and may not be used as input to the ASLAM system.

4.1.3 Indoor/Outdoor

-The system must be capable of working in both indoor and outdoor environments.

4.1.4 Day/Night

-The system must be capable of working in both day and night outdoor environments without retuning. No additional illumination may be used for night operation. There is no requirement for video-based ASLAM at night.

4.1.5 Rotation Invariant

The system must be invariant to rotation of the sensor suite over 360 degrees of yaw. For example, if approaching an intersection from 2 different directions, the ASLAM software must recognize it as the same place.

4.1.3 Operating System

-All software must run on an agreed upon distribution of the Linux operating system.

-Use of open source libraries and the gcc/g++ toolchain is required.

-3rd party toolboxes not currently in the DRDC licensed inventory must be provided to DRDC as part of the contract deliverables.

4.1.4 Software API

-The ASLAM system will be compiled into a software library callable from C++. This will allow the Contractor to integrate the system into DRDC's current software architecture.

-The API documentation will be provided with the library and embedded into the source code using the Doxygen documentation system.

4.1.5 MATLAB interface

-The ASLAM system will include an interface to MATLAB for offline experimentation, debugging and display. This may include implementation of components in MATLAB or simply compiling the software library to make it callable from MATLAB (The mex compiler).

4.1.6 Geometric Loop Closing

-Upon detecting a loop closure indicating a return to "place A", the ASLAM system must provide a geometric 6 degree of freedom transformation estimate (roll, pitch, yaw, and x,y,z translation or the quaternion equivalent) between the previous view of the "place A" and the current view of "place A".

4.1.7 Continuous operation

-The system must be capable of continuous operation as indicated above over distances of at least 10km and periods of at least 1 hour.

4.1.8 Database Storage

-The system must provide a mechanism for storing the ASLAM place information database for use at a later time. For example, the UGV traverses "route A" on day 1. At the end of the traversal, the "ASLAM place information database" (ADB) is stored. On day 2, the UGV loads the ADB database and traverses the route in the opposite direction. The information in the ADB is used help determine loops in the route.

4.1.9 Area of operation

-The system must be capable of successful operation over previously unseen areas.

4.2 Work Structure

The work will occur in 3 different detailed design and development phases:

Phase 1: Literature Review and System Methodology

The purpose of this phase is to produce a detailed system design plan for the project based on a review of state-of-the-art ASLAM systems and the contract specification.

Task 1.1 Full literature review

The Contractor will deliver a full literature review of the current state-of-the-art in the area of

Appearance-Based SLAM. Included will be a description and analysis of current systems including their advantages and disadvantages, and their applicability to this statement of work. This analysis should identify promising algorithms and identify weaknesses in the state-of-the-art that should be addressed in the Contractor's system design.

Task 1.2 (milestone) System Design Plan

At the end of this milestone, a detailed system design plan will state the Contractor's proposed approach justified by the findings of the literature review. AISS understands that due to the nature of R&D, the details of the system design plan may change during the course of the contract. The Technical Authority and the Contractor must mutually agree upon any prospective changes to the project plan.

The detailed design plan should include:

- I. The full literature review generated in *Task 1.1*
- II. A description of algorithmic components that will be implemented/developed with justification for their selection.
- III. A description of the software tools that will be used during the course of the contract with justification for their selection.
- IV. A schedule for system component development.
- V. A risk identification and mitigation table.

Phase 2: ASLAM system developments

Phase 2 of the contract will be executed pursuant to the successful completion of phase 1 as determined by the Technical Authority

Task 2.1 ASLAM system development

The purpose of Phase 2 is the development of an initial ASLAM system that works with the vision and laser sensors individually. There is no requirement for the ASLAM system to work with any combination of sensors at this point. However, the mechanism for doing so must be described. There is no requirement for the system to work with radar during this phase, though the underlying algorithm should be amenable to radar. There is no requirement for night operations during this phase. All other requirements detailed in Section 4.1 must be fulfilled.

Task 2.2 (milestone) ASLAM Software Delivery

Delivery of an initial functional version of the ASLAM software capable of meeting the requirements outlined in Task 2.1.

Task 2.3 ASLAM Field Trials

On dates established by DRDC and the Contractor, a demonstration of the ASLAM package will be conducted at DRDC Suffield. This will include a demonstration using a predetermined test data set prepared by DRDC, and live trials with ASLAM running on a prepared candidate platform with multiple sensory inputs. The Technical Authority and the Contractor, prior to their arrival, will agree upon the details of these trials.

Task 2.4 (milestone) ASLAM Field Trial Report

The ASLAM field trial report will document the findings from the testing and evaluation of SLAM system. An assessment of algorithm effectiveness shall be included.

Phase 3: Multi-Sensor ASLAM with Transformation Estimation

Phase 3 of the contract will be executed pursuant to the successful delivery of Phase 2 as determined by the Technical Authority

Task 3.1 Multi-sensor ASLAM system development

The purpose of Phase 3 is the development of the complete ASLAM system as detailed in the contract requirements. This includes the full complement of sensors working individually and in combination. The requirement for the 6-DOF transformation estimate must also be developed. All requirements detailed in Section 4.1 must be fulfilled.

Task 3.2 (milestone) Updated version of the ASLAM software

Delivery of an updated functional version of the ASLAM software capable of meeting the requirements outlined in Task 3.1.

Task 3.3 Multi-sensor ASLAM Field Trails

On dates established by the Technical Authority and the Contractor, a demonstration of the ASLAM package will be performed at DRDC Suffield. This will include a demonstration using a predetermined test data set prepared by DRDC, and live trials with ASLAM running on a prepared candidate platform with multiple sensory inputs. DRDC and the Contractor, prior to their arrival, will agree upon the details of these trials.

Task 3.4 (milestone) Multi-Sensor ASLAM Field Trial Report

The Multi-Sensor ASLAM field trial report will document the findings from the testing and evaluation of SLAM system. An assessment of algorithm effectiveness should be included.

Phase 4: ASLAM system improvements

Phase 4 of the contract will be executed pursuant to the successful completion of Phase 3 as determined by the Technical Authority.

Task 4.1 ASLAM improvements

During this task, improvements to the ASLAM system will be developed to address the system deficiencies identified by the Technical Authority and the Contractor during the ASLAM field trials in Task 3.3. Any potential improvements and to the system will be agreed upon by DRDC and the Contractor prior to their implementation.

Task 4.2 Final ASLAM Field Trials

On dates established by the Technical Authority and the Contractor, a demonstration of the final ASLAM system will be performed at DRDC Suffield. This will include a demonstration using a predetermined test data set prepared by DRDC, and live trials with ASLAM running on a prepared candidate platform with multiple sensory inputs.

Task 4.3 (milestone) ASLAM Final Report and Software

The final version of the ASLAM source code must be delivered to the Technical Authority.

The ASLAM final report will detail all components of the ASLAM system and will document any relevant scientific results including the results from the field trials conducted in Task 3.2 and 4.3. The project will be completed when the Contractor delivers the final report.

Proposal Content

The Contractor's proposal must:

1. Include a short review of state-of-the art appearance based SLAM (A full review will be conducted in Phase 1 of the contract)
2. Review candidate designs for candidate ASLAM systems
3. Provide all the information necessary to evaluate the contract based on ANNEX D (Bid Evaluation Criteria).

5. Meetings:

Kickoff, monthly, and milestone meetings will ensure that both the Technical Authority and the Contractor have a clear understanding of the project progress. A kick-off meeting will be held at DRDC Suffield. Monthly update meetings will be conducted via teleconference during the course of the contract and will be preceded by a short email/letter indicating the progress made by the Contractor during the month. An assessment of the overall progress, risks, schedule should be included. Meetings after required milestones are completed will be held via teleconference unless otherwise agreed upon by the Technical Authority and the Contractor. Required milestone field trials will take place at DRDC Suffield at a time mutually agreed upon by the Technical Authority and the Contractor. ***Bidders must budget for travel to Suffield for meetings and trials within the stated project budget.***

6. Reports and Deliverables:

8 deliverables are expected:

1. A detailed state-of-the-art review of Appearance Based SLAM algorithms.
2. A preliminary system design plan including a literature review of current state-of-the-art techniques and a justification for the selection of the methodology to be used in the contract.
3. An ASLAM based framework based on MATLAB.
4. An ASLAM Application Programmer Interface (API).
5. Any 3rd party libraries used in the resulting algorithm(s) that are not currently part of the DRDC licensed inventory.
6. Field Trials using DRDC vehicles, sensors, etc.
7. Reports detailing the results and analysis of any project milestones.
8. Full delivery of all source code developed under this contract for DRDC to use in experimentation.
9. A final report detailed the final system and its effectiveness.

The milestone deliverable schedule is detailed below:

<i>Deadline Date</i>	<i>Milestone</i>	<i>Description</i>
October 31, 2010	Task 1.2	System Design Plan
March 31, 2011	Task 2.2	Initial ASLAM Software
June 30, 2011	Task 2.4	Field Trial Report
March 31, 2012	Task 3.2	Improved ASLAM Software
June 30, 2012	Task 3.4	Field Trial Report
March 31, 2013	Task 4.3	Final Report and Software Delivery

7. Government Furnished Support / Equipment / Information:

Where possible, unclassified background information, as required for the completion of the contract, will be provided to the Contractor. DRDC Suffield will provide Datasets used to validate the system for milestones.

8. Acceptance Criteria:

The work will be monitored regularly by for adherence to the work plan and to approve any modifications to the work plan. The Technical Authority will determine acceptance of the work after an examination of the work performed. Each Phase will proceed conditional to the acceptance of the work performed in the previous phase.

9. Intellectual Property:

Intellectual properties that exist prior to the contract and reside with the Crown shall continue to reside with the crown. Likewise, intellectual properties that exist prior to the contract and reside with the contractor shall continue to reside with the contractor. The Crown intends to retain ownership of any Foreground Intellectual Property created by the Contractor during this contract. All reports or papers, co-authored with DRDC scientists must be approved by DRDC's Document Review Panel, while other reporting is to be approved by the Technical Authority.

10. DRDC-Suffield General Contract Safety & Security Clauses**1. GENERAL EXPERIMENTAL PROVING GROUNDS (EPG) SAFETY AND ACCESS INFORMATION**

In accordance with DRDC Suffield regulations, all contractor personnel/visitors and subcontractors participating in Experimental Proving Ground (EPG) activities that are not escorted by DRDC Suffield personnel or the DRDC-authorized contract principal shall attend a general EPG safety briefing lasting approximately one (1) hour at the Field Operations Section (FOS). This briefing will take place annually for long standing contracts and new/additional personnel will be required to take the briefing before beginning work.

An access permit is required for non-DND vehicles travelling on the EPG. In addition, a two-way radio, compatible with the DRDC Suffield communication system, will be supplied for safety reasons. Other forms/briefings related to safety and security may be required.

2. WORK-SPECIFIC SAFETY BRIEFING

Contractors/visitors/subcontractors working with/supporting DRDC Suffield personnel on specific Field Trial Plans (FTP's), Standing Operating Procedures (SOP's), Study Approval Form (SAF), or other procedure shall attend work-specific briefings by the DRDC Technical Authority (TA) lasting approximately one (1) hour relating to health, safety, environmental and emergency response procedures. Documentation including FTP's, SOP's, SAF or other procedures, safety standards and EPG regulations will be cited or made available to contract/visitor principals on a loan basis for reference, as applicable.

3. OBSERVANCE OF ON-SITE SAFETY, HEALTH AND ENVIRONMENTAL STANDARDS ON PROTECTION OF PROPERTY

The contractor, his employees and/or subcontractors, undertakes and agrees to comply with all DND/DRDC Suffield regulations in force at the worksite, including the observance of all safety, health and environmental standards and those in place to preserve and protect DND property from loss or damage from all causes including fire.

4. COMPLIANCE

The contractor is responsible to ensure that all employees and subcontractors that will be working on the site are fully briefed and have completed and signed the Safety Checklist prior to the start of any portion of the on site work. A copy of the signed checklist is to be provided to the DRDC Suffield General Safety Officer who will ensure that the original copy of the document is provided to the appropriate contract manager for the contract file. No payments will be issued until all documentation is in place.

11. References

The references quoted below is by no means comprehensive and that bidders should not base their research or bid solely on the provided references.

[1] J.A. Castellanos, J. Neira, and J.D. Tardos, Limits to the consistency of EKF-based SLAM, in IFAC Symposium on Intelligent Autonomous Vehicles

[2] Tim Bailey, Juan Nieto, Jose Guivant, Michael Stevens and Eduardo Nebot, Consistency of the EKF-SLAM Algorithm, IEEE/RSJ International Conference on Intelligent Robots and Systems, 2008

[3] Mark Cummins and Paul Newman, Highly Scalable Appearance-Only SLAM - FAB-MAP 2.0

[4] David Prasser, Michael Milford, and Gordon Wyth; Outdoor Simultaneous Localization and Mapping using RatSLAM

[5] Martin Magnusson, Henrik Andreasson, Andreas Nüchter, and Achim J. Lilienthal; Automatic Appearance-Based Loop Detection from Three-Dimensional Laser Data Using Normal Distributions Transform

[6] Kin Leong Ho and Paul Newman, Detecting Loop Closure with Scene Sequences, International Journal of Computer Vision, 2007

ANNEX "B"**BASIS OF PAYMENT**

Payment will be made in accordance with the payment schedule below, following receipt and acceptance by the Technical Authority of the relevant Milestone Report. Each report will consist of a narrative which should contain a description of the Work completed under the milestone; and any problems encountered or foreseen (relating to time, cost or technical matters). Milestones are to correspond to the level of effort described in the Statement of Work, Annex "A", and the technical and management portions of the Contractor's proposal dated _____.

In addition, a letter report progress claim at the midpoint of each milestone period will be acceptable for half the milestone payment. Milestone payments may be made before the due date if the deliverable is received and deemed acceptable by the Technical Authority, but only in the fiscal year for which they are assigned.

MILE- STONE	DESCRIPTION	AMOUNT CLAIMED	HOLD- BACK	AMOUNT DUE
Following completion of the tasks and delivery of the relevant milestone report as follows:				
1.	Task 1.2: System Design Plan Deadline Date: October 31, 2010			
2.	Task 2.2: Software Delivery Deadline Date: March 31, 2011			
3.	Task: 2.4: Field Trial Report Deadline Date: June 31, 2011			
4.	Task: 3.2: Software Delivery Deadline Date: March 31, 2012			
5.	Task: 3.4: Field Trial Report Deadline Date: June 30, 2012			
5.	Task: 4.4: Final Report and Software Delivery Deadline Date: March 31, 2013			
6.	Following completion of all the work under the contract and delivery of the final report on or before March 31, 2013.			
7.	Release of holdback upon acceptance of all contract reports and deliverables by the Scientific / Project Authority.	-----		
TOTAL FIRM PRICE			-----	

GOODS AND SERVICES TAX:

The Total Estimated Goods and Services Tax (GST), \$_____ is not included in the amounts above.
The GST is to be shown as a completely separate item on each invoice.

F.O.B. Point: Defence Research and Development Canada - Suffield

Solicitation No. - N° de l'invitation

W7702-115043/A

Amd. No. - N° de la modif.

Buyer ID - Id de l'acheteur

edm002

Client Ref. No. - N° de réf. du client

W7702-11-5043

File No. - N° du dossier

EDM-0-32276

CCC No./N° CCC - FMS No/ N° VME

ANNEX "C"

DISCLOSURES CERTIFICATION

This document is to be completed and signed by the Contractor at the completion of the subject contract and submitted to the Contracting Officer and the Technical Authority designated below:

Contracting Authority

Jasmine Scott

Supply Specialist

Acquisitions, Western Region
Public Works & Government Services Canada
Telus Plaza North, 5th Floor
10025 Jasper Avenue
Edmonton, AB T5J 1S6

Technical Authority

Defence Research & Development Canada Suffield
Department of National Defence
P.O. Box 4000 Main
Medicine Hat, AB T1A 8K6

CONTRACT TITLE: Appearance Based Slam for Indoor/Outdoor Urban Terrain

Please tick appropriate box:

- [] We hereby certify that all applicable disclosures were submitted in compliance with General Conditions 2040 - Research and Development.

YOUR ATTENTION IS DRAWN TO THE TERMS AND CONDITIONS, REGARDING IMPLICATIONS ON NON-DISCLOSURE OF any Technical Documentation, Prototypes, Inventions and Technical Information arising during the performance of work pursuant to the above identified contract,

OR

- [] We hereby certify that there are no disclosures to submit under the above-referenced Contract, referred to in General Conditions 2040 - Research and Development.

Signature

Print Name

Title

Contractor Name

Date

ANNEX "D"**MANDATORY CRITERIA, EVALUATION CRITERIA AND SELECTION METHOD**

In the case of a joint venture, the combined experience of the parties forming the joint venture will be considered in the evaluation of the experience of the Bidder.

Listing experience without providing any supporting data to describe where and how such experience was obtained will result in the experience not being included for evaluation purposes.

MANDATORY CRITERIA**Mandatory Criteria at Solicitation Closing**

Failure to meet any of the following mandatory requirements at solicitation closing will render your submission non-compliant and given no further consideration.

a) Education: Contractor staff working on the project must possess at least a Bachelor's level degree in Computer Science, Engineering, Mathematics or a related field

b) Experience:

- Contractor staff working on the project must have experience in the field of computer vision; and
- Contractor staff working on the project must have experience in the field of machine learning

c) Price Proposal does not exceed the established budget.

Mandatory Criteria Prior to Contract Award

a) Compliance with certification requirements as per Part 5, Section 1, Certifications Precedent to Contract Award:

- i) Federal Contractors Program for Employment Equity - Certification
- ii) Former Public Servant Certification
- iii) Canadian Content Certification
- iv) Status and Availability of Resources
- v) Education and Experience

EVALUATION CRITERIA

Point Rated Criteria

Each Technical Bid which meets all the Mandatory Requirements specified above, will be evaluated and scored in accordance with the following evaluation criteria:

II. POINT RATED REQUIREMENTS			
(Rating: 4=excellent, 3=very good, 2=average, 1=poor, 0=no evidence)			
A. Study Strategy			
	Weight	Rating	Score
1. Demonstrated understanding of the scope and importance of study and the statement of work as set out by the RFP	6		
2. Breakdown of project into logical tasks; planning and detail of task; detailed schedule and timetable; realistic estimation of time required to complete the work	4		
3. Demonstrate methods for assessing and mitigating potential risks	4		
4. Demonstrated original and innovative ideas	4		
Maximum points available		72	
Minimum points acceptable (>70%)		50.4	
Points awarded			
B. Training and Experience			
	Weight	Rating	Score
1. Demonstrated project experience of projects of this nature	4		
2. Suitability of academic backgrounds of personnel assigned	6		
3. Experience and training of staff in computer vision	6		
4. Experience and training of staff in Simultaneous Localization and Mapping	3		
5. Adequacy and availability of personnel to carry out the project	4		
Maximum points available		92	
Minimum points acceptable (>70%)		64.4	
Points awarded			
C. Project Organization			
	Weight	Rating	Score
1. Allocation of manpower for efficient use of personnel	3		
2. Assurance of liaison with the Technical Authority	3		
3. Overall organization of the project	6		
Maximum points available		48	
Minimum points acceptable (>70%)		33.6	
Points awarded			
MAXIMUM TOTAL POINTS AVAILABLE		212	
MINIMUM TOTAL POINTS ACCEPTABLE (70%)		159	
TOTAL POINTS AWARDED			

Solicitation No. - N° de l'invitation

W7702-115043/A

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File No. - N° du dossier

EDM-0-32276

Buyer ID - Id de l'acheteur

edm002

Client Ref. No. - N° de réf. du client

W7702-11-5043

CCC No./N° CCC - FMS No/ N° VME

Evaluation of Proposals

Each proposal must meet all the mandatory requirements set out in the evaluation criteria. Proposals that fail to meet these mandatory requirements will be discarded without further consideration.

Proposals that meet the mandatory requirements will be evaluated against a set of evaluation criteria. A rating (ranging from 0 to 4) will be assigned for each criterion based on an assessment of how your proposal satisfies that criterion. Each Criterion is assigned a weighting factor that reflects its importance. A final score for each criterion is calculated by multiplying the rating by the weight.

Each proposal must achieve a minimum score of 70% of the maximum points available in EACH category subject to point rating. Proposals that fail to achieve this score will be considered technically unacceptable and will be given no further consideration.

Selection Method

Contractor selection will be based on the bidder that submits the highest technically acceptable proposal provided that the estimated total price does not exceed the established budget.