

Request for Proposal (RFP): 01R11-20-C011

FOR THE PROVISION OF

**Application of Genomic Selection as a New Tool
in Agriculture and Agri-Food Canada's Cereal
Breeding Program**

**FOR
Agriculture and Agri-Food Canada (AAFC)**

Contracting Authority:

Colby Collinge
Materiel Manager
Agriculture and Agri-Food Canada
Western Service Centre
300 – 2010 12th Avenue
Regina, Sask. S4P 0M3
Telephone : 306-523-6546
E-mail address: Colby.collinge@canada.ca

TABLE OF CONTENTS

- 1.0 Project Summary
- 2.0 Security Requirements
- 3.0 Interpretation

PART 1: BIDDER INSTRUCTIONS, INFORMATION AND CONDITIONS

- 1.0 Contractual Capacity
- 2.0 Acceptance of Terms and Conditions
- 3.0 Incurring Cost
- 4.0 Enquiries - Solicitation Stage
- 5.0 Rights of Canada
- 6.0 Substantiation of Professional Services Rates
- 7.0 Mandatory Clauses
- 8.0 Debriefing
- 9.0 Office of the Procurement Ombudsman

PART 2: PROPOSAL PREPARATION INSTRUCTIONS & EVALUATION PROCEDURES

- 1.0 Applicable Laws
- 2.0 Submission of Proposal
- 3.0 Proposal Preparation Instructions
- 4.0 Preparation of Technical Proposal (Section 1)
- 5.0 Preparation of Financial Proposal (Section 2)
- 6.0 Certification Requirements (Section 3)
- 7.0 Evaluation Procedures
- 8.0 Request for Proposal Amendment(s)

PART 3: RESULTING CONTRACT TERMS AND CONDITIONS

- 1.0 General Conditions
- 2.0 Requirement
- 3.0 Security Requirements
- 4.0 Contract Period
- 5.0 Contracting Authority
- 6.0 Project Authority
- 7.0 Contractor Representative
- 8.0 Priority of Documents
- 9.0 Basis for Canada's Ownership of Intellectual Property
- 10.0 Replacement of Personnel
- 11.0 Access to Government Facilities/Equipment
- 12.0 Damage to or Loss of Crown Property
- 13.0 Basis of Payment
- 14.0 Method of Payment
- 15.0 Direct Deposit
- 16.0 Invoicing Instructions
- 17.0 Mandatory Certifications
- 18.0 Non-Permanent Resident
- 19.0 Insurance Requirements

LIST OF APPENDICES

- Appendix A - General Conditions
- Appendix B - Statement of Work
- Appendix C - Basis of Payment
- Appendix D - Evaluation Procedures & Criteria
- Appendix E - Certification Requirements

GENERAL INFORMATION

1.0 PROJECT SUMMARY

Swift Current Research and Development Centre (SCRDC) requires the services of a Contractor to perform Genomic Selection (GS) analysis for breeder selection and assist in instructing SCRDC scientists on the application of GS results.

2.0 SECURITY REQUIREMENTS

N/A

3.0 INTERPRETATION

- 3.1 In the Request for proposal “RFP”, “Canada”, “Crown”, “Her Majesty”, “the Government” or “Agriculture and Agri-Food Canada” or “AAFC” means Her Majesty the Queen in right of Canada, as represented by the Minister of Agriculture and Agri-Food;
- 3.2 “Contract” or “Resulting Contract” means the written agreement between Agriculture and Agri-Food Canada and a contractor, comprising the General Conditions (set out in Appendix A of this RFP) and any supplemental general conditions specified in this RFP and every other document specified or referred to in any of them as forming part of the Contract, all as amended by agreement of the Parties from time to time;
- 3.3 “Contracting Authority or authorized representative” means the AAFC official, identified in Part 3, Article 5.0 of this RFP, responsible for the management of the Contract. Any changes to the Contract must be authorized in writing by the Contracting Authority. The Contractor is not to perform Work in excess of or outside the scope of the Contract based on verbal or written requests or instructions from any government personnel other than the aforementioned AAFC official;
- 3.4 “Contractor”, means the person or entity whose name appears on the signature page of the Contract and who is to supply goods or services to Canada under the Contract;
- 3.5 “Minister” means the Minister of Agriculture and Agri-Food or anyone authorized to act on his/her behalf;
- 3.6 “Project Authority or authorized representative” means the AAFC official, identified in Part 3, Article 6.0 of this RFP, responsible for all matters concerning a) the technical content of the Work under the Contract; b) any proposed changes to the scope of the Work, but any resulting change can only be confirmed by a Contract amendment issued by the Contracting Authority; c) inspection and acceptance of all Work performed as detailed in the Statement of Work, and; review and inspection of all invoices submitted;

- 3.7 “Proposal” means an offer, submitted in response to a request from a Contracting Authority, that constitutes a solution to the problem, requirement or objective in the request;
- 3.8 “Bidder” means a person or entity submitting a Proposal in response to this RFP;
- 3.9 “Work” means the whole of the activities, services, materials, equipment, software, matters and things required to be done, delivered or performed by the Contractor in accordance with the terms of this RFP.

PART 1: BIDDER INSTRUCTIONS, INFORMATION AND CONDITIONS

1.0 CONTRACTUAL CAPACITY

- 1.1 The Bidder must have the legal capacity to enter into legally binding contracts. If the Bidder is a sole proprietorship, a partnership or a corporate body, the Bidder should provide a statement indicating the laws under which it is registered or incorporated together with the registered or corporate name and place of business and the country where the controlling interest/ownership of the organization is located as per Appendix E of this RFP.

2.0 ACCEPTANCE OF TERMS AND CONDITIONS

- 2.1 Agriculture and Agri-Food Canada will only consider Proposals which accept Agriculture and Agri-Food Canada's terms and conditions.
- 2.2 The General Conditions attached in Appendix A and those set out in Part 3 of this RFP shall form part of any Resulting Contract.

3.0 INCURRING COST

- 3.1 The cost to prepare the Proposal will not be reimbursed by Agriculture and Agri-Food Canada.
- 3.2 No cost incurred before receipt of a signed Contract or specified written authorization from the Contracting Authority can be charged to any Resulting Contract.

4.0 ENQUIRIES - SOLICITATION STAGE

- 4.1 All enquiries or issues concerning this solicitation must be submitted in writing to the Contracting Authority named on the cover page of the RFP. It is the responsibility of the Bidder to obtain clarification of the requirements contained herein, if necessary prior to submitting a proposal.
- 4.2 Enquiries and issues must be received by the Contracting Authority no later than five **(5)** calendar days prior to the solicitation closing date specified herein to allow sufficient time to provide a response. Enquiries or issues received after that time may not be able to be answered prior to the solicitation closing date.
- 4.3 To ensure consistency and quality of information provided to Bidders, the Contracting Authority will provide, simultaneously to all Bidders any information with respect to **significant** enquiries received and the replies to such enquiries without revealing the sources of the enquiries.
- 4.4 All enquiries and other communications with government officials throughout the solicitation period are to be directed **ONLY** to the Contracting Authority named below. Noncompliance with this condition during the proposal solicitation period may (for that reason alone) result in disqualification of a Proposal.

- 4.5 Meetings will not be held with individual bidders prior to the closing date/time of this RFP, unless otherwise specified.
- 4.6 Bidders shall not place any conditions or make any assumptions that attempt to limit or otherwise modify the scope of work pursuant to the Statement of Work (Appendix B)

5.0 RIGHTS OF CANADA

- 5.1 Canada reserves the right to:
1. Accept any Proposal in whole or in part, without prior negotiation;
 2. Reject any or all Proposals received in response to this RFP;
 3. Cancel and/or re-issue this RFP at any time;
 4. Ask the Bidder to substantiate any claim made in the Proposal;
 5. Enter into negotiations with one or more Bidders on any or all aspects of their Proposals;
 6. Award one or more Contracts;
 7. Retain all Proposals submitted in response to this RFP.

6.0 SUBSTANTIATION OF PROFESSIONAL SERVICES RATES

- 6.1 In Canada's experience, bidders will from time to time propose prices at the time of bidding that they later refuse to honour, on the basis that these prices do not allow them to recover their own costs and/or make a profit. When evaluating the prices for professional services bid, Canada may, but will have no obligation to, require price support for any prices proposed. Examples of price support that Canada would consider satisfactory include:
1. documentation (such as billing records) that shows that the Bidder has recently provided and invoiced another customer (with whom the Bidder deals at arm's length) for services similar to the services that would be provided under a resulting contract, and the fees charged are equal to or less than the price offered to Canada (to protect the privacy of the customer, the Bidder may black out the customer's name and personal information on the invoice submitted to Canada);
 2. a signed contract between the Bidder and an individual qualified (based on the qualifications described in this bid solicitation) to provide services under a resulting contract where the amount payable under that contract by the Bidder to the resource is equal to or less than the price bid;
 3. a signed contract with a subcontractor who will perform the work under any resulting contract, which provides that the required services will be provided at a price that is equal to or less than the price bid; or
 4. details regarding the salary paid to and benefits provided to the individuals employed by the Bidder to provide services, where the amount of compensation, when converted to a per diem or hourly rate (as applicable), is equal to or less than the rate bid for that resource category.

Once Canada requests substantiation of the prices bid, it is the sole responsibility of the Bidder to submit information (either the information described in the examples above, or other information that demonstrates that it will be able to

recover its own costs based on the prices it has proposed) that will allow Canada to determine whether it can rely, with confidence, on the Bidder's ability to provide the required services at the prices bid, while, at a minimum, recovering its own costs. Where Canada determines that the information provided by the Bidder does not demonstrate the Bidder's ability to recover its own costs in providing the prices bid, Canada may, at their sole discretion declare the bid non-compliant.

7.0 MANDATORY CLAUSES

- 7.1 Where the words “**must**”, “**shall**” or “**will**” appear in this RFP, the clause is to be considered as a mandatory requirement.

8.0 DEBRIEFING

- 8.1 After contract award, bidders may request a debriefing on the results of the bid solicitation process. Bidders should make the request to the Contracting Authority within the timeframe specified in the contract award notice. The debriefing may be in writing, by telephone or in person at the discretion of the Contracting Authority.

9.0 OFFICE OF THE PROCUREMENT OMBUDSMAN

If you have issues or concerns regarding the solicitation, you have the option of raising them with the department or with the Office of the Procurement Ombudsman (OPO). The Office of the Procurement Ombudsman was established by the Government of Canada to provide an independent avenue for suppliers to raise complaints regarding the award of contracts under \$25,000 for goods and under \$100,000 for services. You have the option of raising issues or concerns regarding the solicitation, or the award resulting from it, with the OPO by contacting them by telephone at 1-866-734-5169 or by e-mail at boa.opo@boa.opo.gc.ca. You can also obtain more information on the OPO services available to you at their website at www.opo-boa.gc.ca.

PART 2: PROPOSAL PREPARATION INSTRUCTIONS & EVALUATION PROCEDURES

1.0 APPLICABLE LAWS

- 1.1 The Contract shall be interpreted and governed, and the relations between the parties, determined by the laws in force in the Province of Saskatchewan.
- 1.2 In their bid submission, bidders may, at their discretion, substitute the applicable laws of a Canadian province or territory of their choice without affecting the validity of their proposal, by deleting the Canadian province specified in the previous paragraph and inserting the Canadian province or territory of their choice. If no change is made, the bidder acknowledges the applicable law specified is acceptable to the Bidder.

2.0 SUBMISSION OF PROPOSAL

- 2.1 Proposals must be submitted in hard copy as described in Article 3.0.
- Due to the nature of this RFP electronic transmission of proposal by such means as electronic mail or facsimile to the Department of Agriculture and Agri-Food is not considered to be practical and therefore will not be accepted.
- 2.2 The proposal **MUST** be delivered to and received by the Contracting Authority named on the cover page of the RFP no later than **May 28th, 2019 at 2:00 PM CST**. The outside of the envelope containing the proposal should include the RFP number found on the cover page of the RFP.
- 2.4 The onus for submitting proposals on time at the specified location rests with the Bidder. It is the Bidder's responsibility to ensure correct delivery of their proposal to the Contracting Authority.
- 2.5 Proposals submitted in response to this RFP will not be returned.

3.0 PROPOSAL PREPARATION INSTRUCTIONS

- 3.1 The proposal **should** be structured in **THREE SEPARATELY BOUND parts** as indicated below:

Section 1	Technical Proposal (with no reference to price)	1 original hard copy and 1 electronic copy on CD or USB
Section 2	Financial Proposal	1 original hard copy
Section 3	Certifications	1 original hard copy

If there is a discrepancy between the wording of the soft copy and the hard copy, the wording of the soft copy will have priority over the wording of the hard copy.

- 3.2 The Bidder may **submit a proposal in either official language**.

3.3 Each copy of the proposal is to include the Bidder's legal entity name, the name of the Bidder's contact, address, telephone number, facsimile number, email address and the RFP Number.

4.0 PREPARATION OF TECHNICAL PROPOSAL (Section 1)

4.1 In the Technical Proposal, the Bidder should demonstrate its understanding of the requirements of the **Statement of Work Appendix "B"**, as well as demonstrate how the Bidder will meet the requirements of the **Evaluation Procedures and Criteria Appendix "D"**.

4.2 Security Requirements

N/A

5.0 PREPARATION OF FINANCIAL PROPOSAL (Section 2)

In the Financial Proposal, the Bidder shall provide a firm all-inclusive price to provide the services requested in accordance with the Statement of Work **Appendix B**.

The requirements of the Financial Proposal are detailed in Appendix D, Evaluations Procedures and Criteria.

Prices shall not appear in any area of the proposal except in the Financial Proposal.

6.0 CERTIFICATION REQUIREMENTS

In order to be awarded a contract, the certifications attached in **Appendix "E"** will be required. The certifications should be submitted with the proposal. Canada may declare a bid non-responsive if the certifications are not submitted or completed as required. Where Canada intends to reject a proposal pursuant to this paragraph, 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 frame period will render the proposal non-responsive.

Compliance with the certifications the Bidder provides to Canada is subject to verification by Canada. The Contracting Authority shall have the right to ask for additional information to verify that the Bidder is compliant with the applicable certifications before and after award of a contract. Any certification made by the Bidder that is determined to be untrue, whether made knowingly or unknowingly, or any failure to comply with the certifications or comply with the request of the Contracting Authority for additional information, will render the bid non-responsive.

7.0 EVALUATION PROCEDURES

- 7.1 Proposals will be evaluated in accordance with the Evaluation Procedures and Criteria specified in **Appendix D**. Proposals received will be compared separately against the evaluation criteria identified therein for the total requirement described in this RFP and in conjunction with the accompanying **Statement of Work (Appendix B)**.
- 7.2 An evaluation team composed of representatives of the Department of Agriculture and Agri-Food Canada will evaluate the Proposals on behalf of Canada.
- 7.3 The evaluation team reserves the right, but is not obligated, to perform any of the following tasks:
- a) seek clarification or verification from bidders regarding any or all information provided by them with respect to the bid solicitation;
 - b) contact any or all references supplied by bidders to verify and validate any information submitted by them;
 - c) request, before award of any contract, specific information with respect to bidders' legal status;
 - d) verify any information provided by bidders through independent research, use of any government resources or by contacting third parties;
 - e) interview, at the sole costs of bidders, any bidder and/or any or all of the resources proposed by bidders to fulfill the requirement of the bid solicitation.

8.0 REQUESTS FOR PROPOSAL AMENDMENT(S)

- 8.1 Any modifications to this RFP will be made through an amendment which will be posted publicly via GETS.

PART 3: RESULTING CONTRACT TERMS AND CONDITIONS

Upon a Contract being awarded pursuant to RFP #01R11-20-C11, the following Terms and Conditions shall form part of the Resulting Contract:

1.0 GENERAL CONDITIONS

1.1 The General Conditions attached in **Appendix A** shall form part of any Resulting Contract.

2.0 REQUIREMENT

2.1 The contractor will provide the services identified in Appendix B, Statement of Work

2.2 The Contractor shall maintain, for the duration of the Contract, a designated single point of contact, hereafter referred to as a Contractor Representative, dedicated to managing the Contract.

3.0 SECURITY REQUIREMENT

There is no security associated with the work

4.0 CONTRACT PERIOD

4.1 The Contract shall be from date of contract award to August 15th, 2019.

4.2 The Contractor grants to Canada the irrevocable option to extend the duration of the Contract to March 31, 2021 under the same terms and conditions.

4.2.1 Canada may exercise this option at any time by sending a notice to the Contractor prior to the Contract expiry date.

4.2.2 The Contractor agrees that, during the extended period of the Contract resulting from Canada's exercise of its option, the cost will be in accordance with the provisions in Appendix C of the Contract.

4.2.3 The option may only be exercised by the Contracting Authority and will be evidenced for administration purposes only, through a written Contract amendment.

5.0 CONTRACTING AUTHORITY

5.1 The Contracting Authority is:

Colby Collinge
Materiel Manager
Agriculture and Agri-Food Canada
Western Service Centre
300 – 2010 12th Avenue

Regina, Sask. S4P 0M3
Telephone : 306-523-6546
E-mail address: Colby.collinge@canada.ca

- 5.2 The Contracting Authority (or authorized representative) is responsible for the management of the Contract. Any changes to the Contract must be authorized in writing by the Contracting Authority. The Contractor is not to perform Work in excess of or outside the scope of the Contract based on verbal or written requests or instructions from any government personnel other than the aforementioned officer.

6.0 PROJECT AUTHORITY

- 6.1 The Project Authority for the Contract is:

The contact information for the Project Authority will be provided at time of contract award.

- 6.2 The Project Authority, or authorized representative, is responsible for:

1. All matters concerning the technical content of the Work under the Contract;
2. Defining any proposed changes to the scope of the Work, but any resulting change can only be confirmed by a Contract amendment issued by the Contracting Authority;
3. Inspection and acceptance of all Work performed as detailed in the Statement of Work and;
4. Review and approve all invoices submitted.

7.0 CONTRACTOR REPRESENTATIVE

- 7.1 The Contractor Representative for the Contract is:

The contact information for the Contractor Representative will be provided at time of contract award.

- 7.2 The duties and responsibilities of the Contractor Representative shall include the following:

1. Responsible for the overall management of the Contract;
2. Ensure that the Contract is administered in accordance with the terms and conditions of the Contract;
3. Act as a single point of contact to resolve any contractual disputes that may arise. The Contract Representative must have direct access to the level of management within the Contractor's organization vested with the decision-making authority for contractual matters;
4. Shall be established as the only recognized individual from the Contractor's organization to speak on behalf of the Contractor for purposes of Contract management;

5. Monitor all resources that are providing services/deliverables in accordance with the Contract;
6. Liaise with the Project Authority on all matters concerning technical aspects of the Work and performance of its resources; and
7. Manage the transition of any potential resource(s) turnover during the period of the Work.

8.0 PRIORITY OF DOCUMENTS

8.1 The documents specified below form part of and are incorporated into the Contract. If there is a discrepancy between the wordings of any documents which appear on the list, the wording of the document which first appears on the list shall prevail over the wording of any document which subsequently appears on the list:

1. These Terms and Conditions;
2. The Statement of Work, Appendix B hereof;
3. The General Conditions, Appendix A hereof;
4. Basis of Payment, Appendix C hereof;
5. Certification Requirements, Appendix E
6. Request for Proposal number 01R11-20-C011;
7. Contractor's Proposal dated *(to be inserted at contract award)*.

9.0 BASIS FOR CANADA'S OWNERSHIP OF INTELLECTUAL PROPERTY

In this section of the RFP,

- 9.1 "Material" means anything that is created or developed by the Contractor as part of the Work under the Contract, and in which copyright subsists, but does not include computer programs and related software documentation.
- 9.2 Agriculture and Agri-Food Canada has determined that any intellectual property arising from the performance of the Work under the Contract will vest in Canada, on the following grounds:

Pursuant to the Treasury Board Policy on Title to Intellectual Property Arising under Crown Procurement Contracts, Canada has opted to own the intellectual property rights in any Material subject to copyright that is created or developed as part of the Work, with the exception of computer software or any documentation pertaining to such software.

10.0 REPLACEMENT OF PERSONNEL

- 10.1. The Contractor will provide the services of the personnel named in the Contractor's Proposal to perform the Work, unless the Contractor is unable to do so for reasons which are beyond its control.
- 10.2 Should the Contractor at any time be unable to provide their services, the Contractor will contact the Project Authority immediately. In such case, the Contractor is responsible to provide replacement Contractor or personnel who

shall be of similar skills and experience as stated in **the Appendix D, Evaluation Procedures and Criteria.**

- 10.3 The Contractor shall propose replacement personnel for the Project Authorities review within 5 working days (resume and references). The Contractor shall submit, in writing, to the Project Authority the reasons for the removal of personnel from the Work; the name of the proposed replacement person(s); and the qualifications and experience of the proposed replacement person(s). The Project Authority reserves the right to interview any personnel proposed to be assigned to the Work.
- 10.4 Personnel assigned pursuant to the requirements will be capable of performing the Work at a reasonable level of competence. Should any assigned personnel be deemed unsuitable by the Project Authority the Contractor shall provide an immediate replacement of suitable ability that is acceptable to the Project Authority.
- 10.5 The Contractor shall supply competent back-up personnel so that in the event of unforeseen sickness, accident, or any cause which renders a specific individual unavailable, such individuals can be replaced within five (5) working days by a person of like abilities and qualifications.
- 10.6 The resources assigned for the Contract will be measured regularly for quality of services rendered. The measurement will be based on the quality and timeliness of the deliverables specified in the Statement of Work. In the event that quality and deliverables are not produced as and when requested, in any given month, the Crown has the right to request that the Contractor replace the assigned resources immediately, in accordance with Contract clauses included in or referenced in the RFP #01R11-20-C011.
- 10.7 In no event shall the Contractor allow performance of the Work by unauthorized and/or unqualified personnel, whether initially named resources or replacement personnel. In addition, acceptance of any replacements by the Project Authority shall not relieve the Contractor from responsibility for failure to meet the requirements of the Contract.

11.0 ACCESS TO GOVERNMENT FACILITIES/EQUIPMENT

- 11.1 Subject to the approval of the Project Authority, arrangements will be made for the Contractor to access the required facilities, equipment, documentation and personnel at the client's convenience.
- 11.3 There will be, however, no day-to-day supervision of the Contractor's activities or control of hours of work by the Project Authority.

12.0 DAMAGE TO OR LOSS OF CROWN PROPERTY

- 12.1 The Contractor shall reimburse Canada any cost or expenses due to the damage to or loss of Crown-owned property resulting from the Contract or the carrying out thereof, or shall, upon reasonable notice, promptly repair such damage or substitute such loss to Canada's satisfaction.

13.0 BASIS OF PAYMENT

- 13.1 For the services provided, Agriculture and Agri-Food Canada will pay the Contractor in accordance with the Basis of Payment below, and the attached Appendix C (Basis of Payment) for Work performed pursuant to the Contract.

The Contractor will be reimbursed for the costs reasonably and properly incurred in the performance of the Work, as determined in accordance with the Basis of Payment detailed in Appendix C, to a ceiling price of \$ _____ (insert amount at contract award). Customs duties are included and the Applicable Taxes are extra.

The ceiling price is subject to downward adjustment so as not to exceed the actual costs reasonably incurred in the performance of the Work and computed in accordance with the Basis of Payment.

14.0 METHOD OF PAYMENT

- 14.1 Payment will be made in full upon completion of the work described herein for actual days of service incurred, following the submission of all invoicing documentation as specified in Article 15.0, in accordance with the terms herein this agreement and acceptance by the Departmental Representative.

15.0 DIRECT DEPOSIT

The Contractor agrees to receive payment through direct deposit to a financial institution.

Government of Canada considers privacy and security of utmost importance in the issuance of payments. Any information you provide to the Government of Canada in support of Direct Deposit is protected under the Government of Canada *Privacy Act and Access to Information Act (R.S.C., 1985, c. A-1)*.

Additional information is available at:
www.tpsgc-pwgsc.gc.ca/recgen/txt/depot-deposit-eng.html

16.0 INVOICING INSTRUCTIONS

- 16.1 Payment will only be made pursuant to the general conditions specified in the Appendix A and upon submission of a satisfactory invoice duly supported by specified release documents and other documents called for under the Contract.
- 16.2 In addition to Appendix A, Article 17, invoices must be submitted on the Contractor's own invoice form and must be prepared to show:
- Contract #
 - Contract Title

- Milestone Number and dates
- Invoice Amount + applicable taxes
- GST #

16.3 One (1) original of the invoice together with attachments, shall be forwarded to the Project Authority at the address noted in Article 6.0 hereof.

17.0 MANDATORY CERTIFICATIONS

17.1 Compliance with the certifications the Contractor has provided Canada is a condition of the Contract and subject to verification by Canada during the entire period of the Contract. In the event that the Contractor does not comply with any certification or that it is determined that any certification made by the Contractor is untrue, whether made knowingly or unknowingly, the Minister shall have the right, pursuant to the default provisions of the Contract, to terminate the Contract for default.

18.0 NON-PERMANENT RESIDENT *(the non-applicable clause will be deleted at contract award)*

18.1 (CANADIAN CONTRACTOR)

The Contractor must comply with Canadian immigration requirements applicable to foreign nationals entering Canada to work temporarily in fulfillment of the Contract. If the Contractor wishes to hire a foreign national to work in Canada to fulfill the Contract, the Contractor should immediately contact the nearest Service Canada regional office to enquire about Citizenship and Immigration Canada's requirements to issue a temporary work permit to a foreign national. The Contractor is responsible for all costs incurred as a result of non-compliance with immigration requirements.

18.2 (FOREIGN CONTRACTOR)

The Contractor must comply with Canadian immigration legislation applicable to foreign nationals entering Canada to work temporarily in fulfillment of the Contract. If the Contractor wishes to hire a foreign national to work in Canada to fulfill the Contract, the Contractor should immediately contact the nearest Canadian Embassy, Consulate or High Commission in the Contractor's country to obtain instructions, information on Citizenship and Immigration Canada's requirements and any required documents. The Contractor is responsible to ensure that foreign nationals have the required information, documents and authorizations before performing any work under the Contract in Canada. The Contractor is responsible for all costs incurred as a result of non-compliance with immigration requirements.

19.0 INSURANCE REQUIREMENTS

19.1 The Contractor is responsible for deciding if insurance coverage is necessary to fulfill its obligation under the Contract and to ensure compliance with any applicable law. Any insurance acquired or maintained by the Contractor is at its

own expense and for its own benefit and protection. It does not release the Contractor from or reduce its liability under the Contract.

APPENDIX “A”

General Conditions – attached

APPENDIX “B”

STATEMENT OF WORK

TITLE: APPLICATION OF GENOMIC SELECTION AS A NEW TOOL IN AGRICULTURE AND AGRI-FOOD CANADA’S (AAFC) CEREAL BREEDING PROGRAM

BACKGROUND:

The rapid decline in the costs of genotypic profiling per individual has led to a great explosion of many forms of data in the phenotypic-genomic spectrum in recent years in the forms of marker and sequence information, gene expression phenotypes, chromatin structure, RNA expression, protein, biochemical traits, physiological traits, metabolomics and microbiome data enriched with annotations; which, in turn, is leading to the development of new genetic tools that are transforming the way we understand biology as a whole.

Genomic Selection (GS) is a new breeding approach that uses genome-wide molecular markers in prediction of breeding values for multi-genic quantitative traits. Many public and private breeding efforts have adopted GS as a new breeding tool.

Genomic selection differs from the traditional marker assisted selection (MAS) which explains a limited fraction of the genetic variation by the identification of quantitative trait loci. In MAS, genotyping is limited to a selected set of markers that tag putative genes to predict breeding values, and therefore have poor predictive ability due to the fact that only a limited proportion of genetic variance can be captured by the markers.

In GS, all markers are included in the model regardless of effect size and therefore allow for tracking and selecting complex traits with both small and large effect genes. There have been both empirical and simulation studies that have stressed that a greater gain per unit of time can be achieved by GS. Currently, GS is being adapted in breeding programs because it can increase the genetic gain per year. Although there have been great advances on the application of GS in plant breeding programs, there are many factors that affects its success: selection of a good training population, type of genotyping platform, the individuals genotyped, the generation for selection, etc.

OBJECTIVE(S):

Swift Current Research and Development Centre (SCRDC) requires the services of a Contractor to perform GS analysis for breeder selection and assist in instructing SCRDC scientists on the application of GS results.

SCOPE OF WORK:

The Contractor will provide the following services:

- 1) Suggest a genomic selection scheme for AAFC's plant breeding program at SCRDC.
- 2) Solve issues within the implementation of the GS schemes. Provide objective advice and expertise to help AAFC to improve genetic gain in its breeding programs.
- 3) Perform GS analysis on phenotypic and genotypic data generated by AAFC's plant breeding programs at SCRDC.
- 4) Interpret and summarize results and deliver in a report.

DEFINITIONS AND APPLICABLE DOCUMENTS:

Multi-genic quantitative traits: Complex traits such as yield, height, weight, protein content, that show continuous phenotypic variation due to many genes with infinitesimal effects regulating the genotypic value.

Genomic selection: Breeding approach that uses genome-wide molecular markers in prediction of breeding values for multi-genic quantitative traits.

Training population: The set of genotypes that are used in GS experiments (genotypic and phenotypic experiments) to build prediction models.

Kinship matrix: Relationship matrix based on genetic markers.

APPROACH AND METHODOLOGY:

The approach and methodology adhered to will be a performance based SOW whereby the Contractor will perform GS on data provided by SCRDC to generate and interpret GEBVs of phenotypic traits of interest in AAFC breeding populations.

DELIVERABLES / SCHEDULE:

- 1) Perform GS analysis for Fusarium Head Blight (Fhb), Grain Yield and Grain Protein Concentration on SCRDC 2018 F4 lines:
 - a. Organize, manipulate and prepare genotypic and phenotypic data provided by SCRDC for GS
 - b. Determine the optimal GS model to apply to the test data through cross validation assessment of models for accuracy
 - c. Generate genomic estimated breeding values (GEBVs) using the most

accurate GS model.

- d. Summarize and provide interpretation of GEBVs in a report to be delivered prior to July 31st, 2019.

Fusarium Head Blight:

Genotypic Data- 10 million data points (5,000 tGBS markers x 2,000 lines)
Phenotypic Data- 3 measurements (Fhb Incidence, Fhb Severity, Deoxynivalenol)
2 environments
210 lines phenotyped

Grain Yield:

Genotypic Data- 10 million data points (5,000 tGBS markers x 2,000 lines)
Phenotypic Data- 1 measurement
4 environments (2 replicates in 1 environment, otherwise unreplicated)
210 lines phenotyped

Grain Protein Concentration

Genotypic Data- 10 million data points (5,000 tGBS markers x 2,000 lines)
Phenotypic Data- 1 measurement
4 environments (unreplicated)
210 lines phenotyped

Optional Deliverables:

- 2) At the discretion of SCRDC scientists, and pending the results of deliverable 1, GS analysis for additional traits may be requested using the same models and genotypic dataset from deliverable 1 (5,000 tGBS markers) with additional phenotypic datasets of either 500 or 2,000 lines at an additional per trait cost to be detailed in the contractors formal quote and completed by March 31st, 2021.

DEPARTMENTAL RESPONSIBILITY AND SUPPORT:

AAFC is responsible to provide the successful Contractor with information related to their breeding programs; this may include the breeding schemes, information and data about the genotypes, weather data, phenotypic records, etc. In addition, AAFC is responsible for answering questions for the successful Contractor based on their priorities and needs.

CONTRACTOR'S RESPONSIBILITY:

The Contractor will consult AAFC on technical genomic selection details to solve issues within the implementation of GS schemes on our breeding program. It is important to

note that the design and methodology of GS application involves building mathematical models to predict statistical likelihood. As such, the Contractor is responsible only for providing advice and guidance in building the statistical models and expresses no claim on the predicted outcomes nor assumes any liability for AAFC breeding decisions based on GS models.

RISKS AND CONSTRAINTS:

N/A

REPORTING AND COMMUNICATION:

In addition to the timely submission of all deliverables and fulfillment of the obligations specified within the contract, it is the responsibility of the Contractor to facilitate and maintain regular communication with AAFC. Communication is defined as all reasonable effort to inform all parties of the plans, decisions, proposed approaches, implementation and results of work, to ensure the project is progressing well and in accordance with expectations.

Communications may include: phone calls, tele- or video-conferencing, emails, faxes mailing and meetings. In addition, the Contractor is to immediately notify AAFC of any issues, problems or areas of concern in relation to any work completed under the contract as they arise.

PERSONNEL REPLACEMENT AND SUBSTITUTION:

The Contractor must provide the services of the personnel named in the contract to perform the work, unless the Contractor is unable to do so for reasons beyond his / her control.

Should the Contractor at any time be unable to provide the services of the resource(s) named in the contract, the Contractor shall be responsible for providing replacement personnel at the same cost, who shall be of similar or greater ability or attainment, and whom shall be acceptable to the Departmental Representative.

LOCATION WORK:

Work to occur at successful Contractor's location.

DURATION / PERIOD OF CONTRACT:

Work will commence upon the first day of contract award. Deliverable 1. will conclude on or before July 31st, 2019 with option deliverables concluding on or before March 31st, 2021.

PROTECTION OF PERSON AND PROPERTY

The Contractor shall use due care and take all necessary precautions to ensure the protection of persons and property and shall comply with the provisions of the applicable federal and provincial government agencies including but not limited to the Workers' Compensation Board and the Provincial Labour Occupational Health and Safety Board.

APPENDIX “C”

BASIS OF PAYMENT

1.0 General

Payment shall be in accordance with **article 14.0 of Part 3, Method of Payment and 15.0 of Part 3, Direct Deposit.**

All deliverables FOB destination, Canadian custom duties and excise tax (if applicable). If applicable, Applicable Taxes for the labour will be shown separately.

2.0 Pricing Basis

The Contractor shall be paid in accordance with the following for work performed under the Contract.

Initial Contract Period – Date of Contract award to August 15th, 2019

Item	Description	All Inclusive Firm Per Diem Rate (A)	Estimated Days (B)	Estimated Amount (AxB)
1	2018 F ₄ FHB			
	a) Data Preparation			
	b) Building Genomic Prediction Model			
	c) Evaluation of Models			
	d) Report Writing			
2	2018 F ₄ Protein Content			
	a) Data Preparation			
	b) Building Genomic Prediction Model			
	c) Evaluation of Models			
	d) Report Writing			
3	2018 F ₄ Grain Yield			
	a) Data Preparation			
	b) Building Genomic Prediction Model			
	c) Evaluation of Models			
	d) Report Writing			
4	Additional costs (computation resources, subcontracting, IP Background) – firm amount			

Optional Deliverable – August 16th, 2019 to March 31, 2021- Cost per each additional trait

Item	Description	All Inclusive Firm Per Diem Rate (A)	Estimated Days (B)	Estimated Amount (AxB)
1	Optional 2019 GS Analysis – cost per trait			
	a) Data Preparation			
	b) Building Genomic			

	Prediction Model			
	c) Evaluation of Models			
	d) Report Writing			
2	Additional costs (computation resources, subcontracting, IP Background) – Firm Amount			

Definition of a Day/Proration: A day is defined as 7.5 hours exclusive of meal breaks. Payment will be for days actually worked with no provision for annual leave, statutory holidays and sick leave. Time worked ("Days_worked", in the formula below) which is less than a day will be prorated to reflect actual time worked in accordance with the following formula:

$$Days_worked = \frac{Hours_Worked}{7.5_hours_per_day}$$

Travel and Living Expenses

No travel will be reimbursed under this contract

APPENDIX D

EVALUATION PROCEDURES & CRITERIA

TECHNICAL PROPOSAL

It is essential that the elements contained in the Proposal be stated in a clear manner and in sufficient depth to allow for evaluation by the evaluation team.

1.0 METHOD OF SELECTION – HIGHEST COMBINED SCORE OF TECHNICAL MERIT AND PRICE

- 1.1 The evaluation process is designed to identify the most qualified contractor to provide services as stipulated in the Statement of Work (Appendix B).
- 1.2 This section comprises the detailed Proposal requirements that will be used to evaluate Bidders' responses to the RFP.
- 1.3 The mandatory requirements under section 2.0 will be evaluated on a compliant/non-compliant basis. The Proposals must include the necessary documentation to demonstrate this compliance.
- 1.4 The selection of the responsive Proposal will be made on the basis of the **HIGHEST COMBINED SCORE** for both the technical and financial proposals. The combined scores will be determined by adding the technical and financial points obtained.

The Bidders' Technical and Financial proposals will be scored separately. An Overall Proposal Score will be determined by combining a Bidder's Technical Proposal Score and Financial Proposal Score in accordance with the following weights:

Technical Proposal = 70%
Financial Proposal = 30%
Overall Proposal = 100%

Formula:

$$\frac{\text{Technical Score} \times \text{Weight (70)}}{\text{Max Points}} + \frac{\text{Lowest Price} \times \text{Weight(30)}}{\text{Bidder's Price}} = \text{Overall Score}$$

Example:

<i>Highest Combined Rating Technical Merit (70%) and Price (30%)</i>			
<i>Calculation</i>	<i>Technical Points</i>	<i>Price Points</i>	<i>Total Points</i>
Proposal 1 - Tech = 88/100 - Price =	$\frac{88 \times 70}{100} = 61.6$	$\frac{*50 \times 30}{60} = 25$	= 86.6

\$60,000			
Proposal 2 - Tech = 86/100 - Price - \$55,000	$\frac{86 \times 70}{100} = 60.2$	$\frac{*50 \times 30}{55} = 27.27$	= 87.47
Proposal 3 - Tech = 76/100 - Price = \$50,000	$\frac{76 \times 70}{100} = 53.2$	$\frac{*50 \times 30}{50} = 30$	= 83.2
* Represents the lowest priced proposal Bidder 2 is successful with the highest combined rating of 87.47			

1.5 **To be considered Responsive, a Proposal Must:**

- 1- Meet all the mandatory requirements specified in section 2.0 below;
- 2- Achieve the minimum number of points identified on each criteria in rated criteria.

1.6 The price of the Proposal will be evaluated in CANADIAN DOLLARS, Applicable Taxes excluded, FOB destination for goods/services, Customs Duties and Excise Taxes included.

1.7 Failure of a Proposal to provide information in sufficient detail and depth to permit evaluation against the identified criteria may render a Proposal non-responsive. **All Bidders are advised that only listing experience without providing any supporting data to describe where and how such experience was obtained will not be considered to be “demonstrated” for the purpose of the evaluation. All professional experience should be fully demonstrated in the Proposal (i.e., dates, number of years and months of experience).**

1.8 The Bidders acknowledge and agree that Canada is not responsible to search for, and therefore evaluate, information that is not properly referenced or is not otherwise provided in accordance with the Proposal Preparation Instructions in Part 2, Article 3.0.

1.9 Bidders shall not place any conditions or make any assumptions that attempt to limit or otherwise modify the scope of Work pursuant to the Statement of Work (Appendix B).

1.10 In the event two or more responsive proposals receive the same combined score, the proposal with the highest technical score will be ranked higher.

2.0 MANDATORY REQUIREMENTS

Failure to comply with any of the mandatory requirements will render the Proposal non-compliant and the Proposal will receive no further consideration.

The Bidder is requested to use the tables provided to identify where the information can be found in the proposal (i.e.: Identify the page / project number, etc.)

3.0 POINT RATED REQUIREMENTS

The Bidder should address the rated requirements in the order in which they are listed and in sufficient detail so that an in-depth evaluation is possible. These criteria will be used by Agriculture and Agri-Food Canada to evaluate each Proposal. The assessment by AAFC will be based solely on the information contained in the Proposal. An item not addressed will be given zero (0) points under the point rated system. AAFC may, but is not obligated to, ask the Bidder for clarifications.

The Bidder is requested to use the tables provided to identify where the information can be found in the proposal (i.e.: Identify the page / project number, etc.)

Refer to Attachment #1 to Appendix D for the Point Rated Criteria and corresponding tables.

4.0 FINANCIAL PROPOSAL

4.1 The Bidder is requested to complete the table identified below which will form the Financial Proposal.

Initial Contract Period – Date of Contract award to Aug 15th, 2019

Item	Description	All Inclusive Firm Per Diem Rate (A)	Estimated Days (B)	Estimated Amount (AxB)
1	2018 F ₄ FHB			
	a) Data Preparation			
	b) Building Genomic Prediction Model			
	c) Evaluation of Models			
	d) Report Writing			
2	2018 F ₄ Protein Content			
	a) Data Preparation			
	b) Building Genomic Prediction Model			
	c) Evaluation of Models			
	d) Report Writing			
3	2018 F ₄ Grain Yield			
	a) Data Preparation			
	b) Building Genomic Prediction Model			
	c) Evaluation of Models			
	d) Report Writing			
4	Additional costs (computation resources, subcontracting, IP Background)			
Total				\$

Optional Deliverable – Cost per each additional Trait

Item	Description	All Inclusive Firm Per Diem Rate (A)	Estimated Days (B)	Estimated Amount (AxB)
1	Optional 2019 GS Analysis – cost per trait			
	a) Data Preparation			
	b) Building Genomic Prediction Model			
	c) Evaluation of Models			
	d) Report Writing			
2	Additional costs (computation resources, subcontracting, IP Background)			
Total				\$

Definition of a Day/Proration: A day is defined as 7.5 hours exclusive of meal breaks. Payment will be for days actually worked with no provision for annual

leave, statutory holidays and sick leave. Time worked ("Days_worked", in the formula below) which is less than a day will be prorated to reflect actual time worked in accordance with the following formula:

$$Days_worked = \frac{Hours_Worked}{7.5_hours_per_day}$$

Travel and Living Expenses

No travel will be reimbursed under this contract

5.0 DETERMINATION OF SUCCESSFUL BIDDER

The Bidders will be ranked according to the combined financial and technical score. The Bidder with the highest combined score will be awarded the contract.

APPENDIX E

CERTIFICATION REQUIREMENTS

The following certification requirements apply to this Request for Proposal (RFP) document. Bidders should include, with their proposal, a signed copy of this certification below.

A) LEGAL ENTITY AND CORPORATE NAME

Please certify that the Bidder is a legal entity that can be bound by the contract and sued in court and indicate **i)** whether the Bidder is a corporation, partnership or sole proprietorship, **ii)** the laws under which the Bidder was registered or formed, **iii)** together with the registered or corporate name. Also identify **iv)** the country where the controlling interest/ownership (name if applicable) of the Bidder is located.

i) _____
ii) _____
iii) _____
iv) _____

Any resulting Contract may be executed under the following **i)** corporate full legal name and **ii)** at the following place of business (complete address) **iii)** telephone and fax number and email:

i) _____
ii) _____
iii) _____

Name

Signature

Date

B) EDUCATION/EXPERIENCE CERTIFICATION

We certify that all statements made with regard to the education and the experience of individuals proposed for completing the subject Work are accurate and factual, and we are aware that the Minister reserves the right to verify any information provided in this regard and that untrue statements may result in the proposal being declared **non-responsive** or in other action which the Minister may consider appropriate.

Name

Signature

Date

C) PRICE/RATE CERTIFICATION

"We hereby certify that the price quoted have been computed in accordance with generally accepted accounting principles applicable to all like services rendered and sold by us, that such prices are not in excess of the lowest prices charged anyone else, including our most favoured customer for like quality and quantity of the services, does not include an element of profit on the sale in excess of that normally obtained by us on the sale of services of like quality and quantity, and does not include any provision for discounts or commissions to selling agents".

Name

Signature

Date

D) VALIDITY OF PROPOSAL

It is requested that proposals submitted in response to this Request for Proposal be:

- valid in all aspects, including price, for not less than one hundred and twenty (120) days from the closing date of this RFP; and,
- signed by an authorized representative of the Bidder in the space provided on the RFP; and,
- provide the name and telephone number of a representative who may be contacted for clarification or other matters relating to the Bidder's proposal.

Name

Signature

Date

E) AVAILABILITY AND STATUS OF PERSONNEL

The Bidder certifies that, should it be authorized to provide services under any contract resulting from this RFP, the employees proposed in its proposal will be available to

commence performance of the work within a reasonable time from contract award, or within the time specified herein.

If the Bidder has proposed any person in fulfilment of this requirement who is not an employee of the Bidder, the Bidder hereby certifies that it has written permission from such person to propose the services of such person in relation to the work to be performed in fulfilment of this requirement and to submit such person's résumé to the Contracting Authority.

During the proposal evaluation, the Bidder MUST upon the request of the Contracting Authority provide a copy of such written permission, in relation to any or all non-employees proposed. The Bidder agrees that failure to comply with such a request may lead to disqualification of the Bidder's proposal from further consideration.

Name

Signature

Date

F) FORMER PUBLIC SERVANT – STATUS AND DISLCOSURE

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, 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 payable to the Canada Pension Plan Act, R.S., 1985, c.C-8.

Former Public Servant in Receipt of a Pension

As per the above definitions, is the Bidder a FPS in receipt of a pension? Yes () No ()

If so, the Bidder must provide the following information, for all FPS in receipt of a pension, as applicable:

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

By providing this information, Bidders agree that the successful Bidder’s status, with respect to being a former public servant in receipt of a pension, will be reported on departmental websites as part of the published proactive disclosure report.

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.

Name

Signature

Date

G) JOINT VENTURES

1.0 In the event of a proposal submitted by a contractual joint venture, the proposal shall be signed by either all members of the joint venture or a statement shall be provided to the effect that the signatory represents all parties of the joint venture. The following will be completed if applicable:

1. The Bidder represents that the bidding entity is/is not (delete as applicable) a joint venture in accordance with the definition in paragraph 3.
2. A Bidder that is a joint venture represents the following additional information:

(a) Type of joint venture (mark applicable choice):

- Incorporated joint venture
- Limited partnership joint venture
- Partnership joint venture
- Contractual joint venture
- Other

(b) Composition (names and addresses of all members of the joint venture)

3. Definition of joint venture

A joint venture is an association of two or more parties who combine their money, property, knowledge, skills, time or other resources in a joint business enterprise agreeing to share the profits and the losses and each having some degree of control over the enterprise. Joint ventures may be carried on in a variety of legal forms divided into three categories:

- (a) The incorporated joint venture;
- (b) The partnership venture;
- (c) The contractual joint venture where the parties combine their resources in the furtherance of a single business enterprise without actual partnership or corporate designation.

4. The joint venture team arrangement is to be distinguished from other types of Contractor arrangements, such as:

- (a) Prime Contractor, in which, for example, the purchasing agency contracts directly with a Contractor (prime) who acts as the system assembler and integrator, with major components, assemblies and subsystems normally subcontracted;
- (b) Associated Contractor, in which for example, the purchasing agency contracts directly with each of the major component suppliers and performs the integration tasks or awards a separate contract for this purpose.

5. If the Contract is awarded to an unincorporated joint venture, all members of the joint venture shall be jointly and severally responsible for the performance of the Contract.

Name

Signature

Date

H) FEDERAL CONTRACTORS PROGRAM

Federal Contractors Program for Employment Equity - Bid Certification

By submitting a bid, the Bidder certifies that the Bidder, and any of the Bidder's members if the Bidder is a Joint Venture, is not named on the [Federal Contractors Program \(FCP\)](#) for employment equity "FCP Limited Eligibility to Bid" list.

Canada will have the right to declare a bid non-responsive if the Bidder, or any member of the Bidder if the Bidder is a Joint Venture, appears on the "FCP Limited Eligibility to Bid" list at the time of contract award.

PROGRAM FOR EMPLOYMENT EQUITY - CERTIFICATION

I, the Bidder, by submitting the present information to the Contracting Authority, certify that the information provided is true as of the date indicated below. The certifications provided to Canada are subject to verification at all times. I understand that Canada will declare a bid non-responsive, or will declare a contractor in default, if a certification is found to be untrue, whether during the bid evaluation period or during the contract period. Canada will have the right to ask for additional information to verify the Bidder's certifications. Failure to comply with such request by Canada will also render the bid non-responsive or will constitute a default under the Contract.

For further information on the Federal Contractors Program for Employment Equity visit ESDC-Labour's website.

Date: _____(YYYY/MM/DD) (If left blank, the date will be deemed to be the bid solicitation closing date.)

Complete both A and B.

A. Check only one of the following:

- A1. The Bidder certifies having no work force in Canada.
- A2. The Bidder certifies being a public sector employer.
- A3. The Bidder certifies being a federally regulated employer being subject to the Employment Equity Act.
- A4. The Bidder certifies having a combined work force in Canada of less than 100 employees (combined work force includes: permanent full-time, permanent part-time and temporary employees [temporary employees only includes those who have worked 12 weeks or more during a calendar year and who are not full-time students]).
- A5. The Bidder has a combined workforce in Canada of 100 or more employees; and
 - A5.1. The Bidder certifies already having a valid and current Agreement to Implement Employment Equity (AIEE) in place with ESDC-Labour.

OR

() A5.2. The Bidder certifies having submitted the Agreement to Implement Employment Equity (LAB1168) to ESDC-Labour. As this is a condition to contract award, proceed to completing the form Agreement to Implement Employment Equity (LAB1168), duly signing it, and transmit it to ESDC-Labour.

B. Check only one of the following:

() B1. The Bidder is not a Joint Venture.

OR

() B2. The Bidder is a Joint Venture and each member of the Joint Venture must provide the Contracting Authority with a completed annex Federal Contractors Program for Employment Equity - Certification. (Refer to the Joint Venture section of the Standard Instructions)

Name

Signature

Date

I) INTEGRITY PROVISIONS

1. Ineligibility and Suspension Policy (the "Policy"), and all related Directives (2016-04-04), are incorporated by reference into, and form a binding part of the procurement process. The Supplier must comply with the Policy and Directives, which can be found at [Ineligibility and Suspension Policy](#).
2. Under the Policy, charges and convictions of certain offences against a Supplier, its affiliates or first tier subcontractors, and other circumstances, will or may result in a determination by Public Works and Government Services Canada (PWGSC) that the Supplier is ineligible to enter, or is suspended from entering into a contract with Canada. The list of ineligible and suspended Suppliers is contained in PWGSC's Integrity Database. The Policy describes how enquiries can be made regarding the ineligibility or suspension of Suppliers.
3. In addition to all other information required in the procurement process, the Supplier must provide the following:
 - a. by the time stated in the Policy, all information required by the Policy described under the heading "Information to be Provided when Bidding, Contracting or Entering into a Real Property Agreement"; and
 - b. with its bid / quote / proposal, a complete list of all foreign criminal charges and convictions pertaining to itself, its affiliates and its proposed first tier subcontractors that, to the best of its knowledge and belief, may be similar to one of the listed offences in the Policy. The list of foreign criminal charges and convictions must be submitted using an Integrity Declaration Form, which can be found at [Declaration form for procurement](#).
4. Subject to subsection 5, by submitting a bid / quote / proposal in response a request by AAFC, the Supplier certifies that:
 - a. it has read and understands the [Ineligibility and Suspension Policy](#);

- b. it understands that certain domestic and foreign criminal charges and convictions, and other circumstances, as described in the Policy, will or may result in a determination of ineligibility or suspension under the Policy;
 - c. it is aware that Canada may request additional information, certifications, and validations from the Supplier or a third party for purposes of making a determination of ineligibility or suspension;
 - d. it has provided with its bid / quote / proposal a complete list of all foreign criminal charges and convictions pertaining to itself, its affiliates and its proposed first tier subcontractors that, to the best of its knowledge and belief, may be similar to one of the listed offences in the Policy;
 - e. none of the domestic criminal offences, and other circumstances, described in the Policy that will or may result in a determination of ineligibility or suspension, apply to it, its affiliates and its proposed first tier subcontractors; and
 - f. it is not aware of a determination of ineligibility or suspension issued by PWGSC that applies to it.
5. Where a Supplier is unable to provide any of the certifications required by subsection 4, it must submit with its bid/ quote / proposal a completed Integrity Declaration Form, which can be found at [Declaration form for procurement](#).
6. Canada will declare non-responsive any bid / quote / proposal in respect of which the information requested is incomplete or inaccurate, or in respect of which the information contained in a certification or declaration is found by Canada to be false or misleading in any respect. If Canada establishes after award of the Contract that the Supplier provided a false or misleading certification or declaration, Canada may terminate the Contract for default. Pursuant to the Policy, Canada may also determine the Supplier to be ineligible for award of a contract for providing a false or misleading certification or declaration.

LIST OF NAMES :

Bidders who are a **'sole proprietorship'** must provide the name of the owner(s).

Bidders who are **'incorporated'** must provide :

- a) a complete list of all persons who are owners OR
- b) a list of all individuals who are on the current Board of Directors

Bidders who are a **'joint venture'** must provide a complete list of Company names under the Joint venture with :

- a) a complete list of all owners for each company OR
- b) a complete list all individuals who are on the current Board of Directors for each company

Bidders who are a **'society'** or **'partnerships'** do not need to provide names.

Certification: I _____ (Suppliers name) understand that any information I submit in order for the department to confirm my eligibility to receive a contract may be shared and used by AAFC and /or PSPC as part of the validation process, and the results of verification may be publicly disseminated. Moreover, I am aware that any erroneous or missing information could result in the cancellation of my bid as well as a determination of ineligibility/suspension.

Name

Signature

Date

**Attachment #1 to Appendix D
Point Rated Criteria**

Rated Criteria

A. Technical Approach

- 1 Must propose, develop and justify clear Genomic Selection (GS) methodology detailed in a work plan customized to modified pedigree wheat breeding programs (<https://www.nrcresearchpress.com/doi/full/10.1139/cjps-2016-0150#.XMMp52N7noo>) that includes:
 - i. Nature, type of required data and plan for organization and preparation of genotypic and phenotypic data
 - ii. Determining the optimum prediction model to apply to test data through cross validation assessment of recommended GS models for accuracy using training data
 - iii. Applying the most accurate prediction model to the test set to generate genomic estimated breeding values (GEBV)
- 2 Provide GEBVs and interpretation of GS data output in a report before deliverable deadlines
- 3 Provide on-going telephone/web meeting support for the duration of the contract included in the contract price

B. Technical Capability and Capacity

- 1 Must demonstrate technical capability (computer software, hardware)- list software; hardware that GS will be performed on.
- 2 Must demonstrate technical capacity to handle large, complex genotypic and phenotypic datasets and perform GS on a large scale involving multiple traits and environments
- 3 Must demonstrate the ability to develop software components related to the implementation of GS
- 4 Must demonstrate GS training/teaching experience to assist instruction of SCRDC scientists on the application of GS results

C. Project Experience

- 1 Must clearly demonstrate the qualifications and experience of contractor team
- 2 Must Clearly demonstrate the qualifications and experience of performing GS analysis in wheat
- 3 Must clearly demonstrate prior GS consulting experience in wheat
- 4 Contractor must have authored and list scientific publications related to GS in wheat
- 5 Must clearly demonstrate experience working with wheat disease and quality traits

- 6 Must clearly demonstrate experience writing/developing GS models

D. Project Timeline

- 1 Must provide summarized data results and interpretation of deliverable 1. by August 15th, 2019.
- 2 Must provide summarized data results and interpretation of optional deliverables by March 31st, 2021.

POINT RATED CRITERIA – SCRDC Genomic Selection (GS)

Overall Rating Criteria				
Maximum 580 points; Minimum 440 points to qualify				
A. Technical Approach (Maximum 140 points; Minimum 105 points)				
1. Contractor proposed GS methodology, development, and justification suitable to the technical requirements, clear and detailed work plan customized to modified pedigree wheat breeding programs	0 – 15 points GS methodology or development uncertain; justification weak, or work plan vague; does not illustrate customization to modified pedigree wheat breeding programs	16-30 points Some potential limitation to GS methodology, development, or limitations in justification or work plan; limited customization to modified pedigree wheat breeding programs	31-45 points Clear and appropriate GS methodology, development, and justification. Detailed and concise work plan; adequate customization to modified pedigree wheat breeding programs	46-60 points Exceptional GS methodology, development, and justification. Detailed and concise work plan addressing previously unconceived elements; exceptional customization to modified pedigree wheat breeding programs
2. Contractor proposed GS output reporting format is well organized, clear and provides detailed interpretation of GEBVs	0 – 10 points Proposed reporting format and/or interpretation methodology of GEBVs is weak, unclear or incomplete	11-20 points Some potential limitation to proposed reporting format and/or interpretation methodology of GEBVs	21-30 points Detailed and appropriate proposed reporting format and/or clear interpretation methodology of GEBVs	31-40 points Exceptional proposed reporting format; clear interpretation methodology of GEBVs immediately useful to SCRDC scientists
3. Contractor provides on-going technical support for the duration of the contract included in the contract price	0 – 10 points Proposed contractor technical support arrangement is poor/unavailable	11-20 points Proposed contractor technical support arrangement is somewhat limited	21-30 points Proposed contractor technical support arrangement is adequate	31-40 points Proposed contractor technical support arrangement is exceptional
B. Technical Capability and Capacity (Maximum 160 points; Minimum 120 points)				

1. Contractor technical capability suitable to perform GS on a large scale	0 – 10 points Technical capability unsuitable to perform GS on a large scale	11-20 points Some potential limitation to technical capability to perform GS on a large scale	21-30 points Appropriate technical capability to perform GS on a large scale	31-40 points Exceptional technical capability to perform GS on a large scale
2. Contractor technical capacity suitable to perform GS on a large scale	0 – 10 points Technical capacity unsuitable to perform GS on a large scale	11-20 points Some potential limitation to technical capacity to perform GS on a large scale	21-30 points Appropriate technical capacity to perform GS on a large scale	31-40 points Exceptional technical capacity to perform GS on a large scale
3. Contractor ability to develop software components related to the implementation of GS	0 – 10 points Contractor unable to develop software components related to GS; employs prewritten open source GS routines or black-box proprietary software	11-20 points Contractor has limited ability to develop software components related to GS; primarily employs prewritten open source GS routines or black-box proprietary software	21-30 points Contractor has suitable ability to develop software components related to GS; employs prewritten and custom GS routines	31-40 points Contractor has exceptional ability to develop software components related to GS; employs customized GS routines
4. Contractor demonstrates GS training/teaching experience	0 – 10 points Contractor does not have GS training/teaching experience	11-20 points Contractor has minimal GS training/teaching experience	21-30 points Contractor has suitable GS training/teaching experience	31-40 points Contractor has exceptional GS training/teaching experience
C. Project Experience (Maximum 240 points; Minimum 180 points)				
1. Contractor clearly demonstrates the qualifications and experience of the contractor team	0 – 10 points Unsatisfactory qualifications and/or experience of the contractor team	11-20 points Somewhat limited qualifications and/or experience of the contractor team	21-30 points Satisfactory qualifications and/or experience of the contractor team	31-40 points Exceptional qualifications and/or experience of the contractor team
2. Contractor clearly demonstrates qualifications and	0 – 10 points Unsatisfactory qualifications and/or experience	11-20 points Somewhat limited qualifications and/or experience	21-30 points Satisfactory qualifications and/or experience	31-40 points Exceptional qualifications and/or

experience performing GS analysis in wheat	performing GS analysis in wheat	performing GS analysis in wheat	performing GS analysis in wheat	experience performing GS analysis in wheat
3. Contractor clearly demonstrates prior GS consulting experience in wheat	0 – 10 points Contractor has no prior GS consulting experience in wheat	11-20 points Contractor has minimal prior GS consulting experience in wheat	21-30 points Contractor has adequate prior GS consulting experience in wheat	31-40 points Contractor has exceptional prior GS consulting experience in wheat
4. Contractor has authored and listed publications related to GS in wheat	0 – 10 points Contractor has not authored publications related to GS in wheat	11-20 points Contractor has authored and listed few publications related to GS in wheat	21-30 points Contractor has authored and listed satisfactory publications related to GS in wheat	31-40 points Contractor has authored and listed exceptional publications related to GS in wheat
5. Contractor clearly demonstrates experience working with wheat disease and quality traits	0 – 10 points Contractor does not have experience working with wheat disease and quality traits	11-20 points Contractor has limited experience working with wheat disease and quality traits	21-30 points Contractor has acceptable experience working with wheat disease and quality traits	31-40 points Contractor has exceptional experience working with wheat disease and quality traits
6. Contractor clearly demonstrates experience writing/developing GS models	0 – 10 points Contractor does not have experience writing/developing GS models	11-20 points Contractor has limited experience writing/developing GS models	21-30 points Contractor has acceptable experience writing/developing GS models	31-40 points Contractor has exceptional experience writing/developing GS models
D. Project Timeline (Maximum 40 points; Minimum 35 points)				
1. Contractor able to provide data results and interpretation of deliverable 1 by August 15 th , 2019	0 points Contractor unable to provide data results and interpretation of deliverable 1 by August 15 th , 2019		15 points Contractor able to provide data results and interpretation of deliverable 1 by August 15 th , 2019	20 points Contractor able to provide data results and interpretation of deliverable 1 prior to August 15 th , 2019

<p>2. Contractor able to provide data results and interpretation of optional deliverables by March 31st, 2021</p>	<p>0 points Contractor unable to provide data results and interpretation of optional deliverables by March 31st, 2021</p>			<p>20 points Contractor able to provide data results and interpretation of optional deliverables by March 31st, 2021</p>
--	---	--	--	--