

RETURN BIDS TO:
RETOURNER LES SOUMISSIONS À:
Réception des soumissions - TPSGC / Bid Receiving
- PWGSC
1550, Avenue d'Estimauville
1550, D'Estimauville Avenue
Québec
Québec
G1J 0C7

**SOLICITATION AMENDMENT
MODIFICATION DE L'INVITATION**

The referenced document is hereby revised; unless otherwise indicated, all other terms and conditions of the Solicitation remain the same.

Ce document est par la présente révisé; sauf indication contraire, les modalités de l'invitation demeurent les mêmes.

Comments - Commentaires

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

Issuing Office - Bureau de distribution
TPSGC/PWGSC
601-1550, Avenue d'Estimauville
Québec
Québec
G1J 0C7

Title - Sujet AT Modelisation & Simulation		
Solicitation No. - N° de l'invitation W7701-135622/A		Amendment No. - N° modif. 003
Client Reference No. - N° de référence du client W7701-135622		Date 2013-12-10
GETS Reference No. - N° de référence de SEAG PW-\$QCL-018-15718		
File No. - N° de dossier QCL-3-36097 (018)		CCC No./N° CCC - FMS No./N° VME
Solicitation Closes - L'invitation prend fin at - à 02:00 PM on - le 2013-12-20		Time Zone Fuseau horaire Heure Normale du l'Est HNE
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: Piras, Gabriel		Buyer Id - Id de l'acheteur qcl018
Telephone No. - N° de téléphone (418) 649-2870 ()		FAX No. - N° de FAX (418) 648-2209
Destination - of Goods, Services, and Construction: Destination - des biens, services et construction:		

Instructions: See Herein

Instructions: Voir aux présentes

Delivery Required - Livraison exigée	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

TITLE : MODELLING AND SIMULATION OF MILITARY PLATFORM SYSTEMS AND BEHAVIOURS AMENDMENT 003

Included in the present amendment :

- Modifications 2 to 5 to the Request for Proposals (RFP)
- Questions and answers 6 to 9

Modification 2 :

Delete : Annex B - Basis of Payment - in its entirety.

Insert : The following Annex B - Basis of Payment.

“ANNEX B

BASIS OF PAYMENT

1. LABOUR :

The Contractor agrees to provide the following resources as and when requested by Canada at the following firm all inclusive rates (in accordance with the Payment provisions of the Contract) :

Proposed Resources	Firm Hourly Rate		
	Fiscal Year (FY) 2014/15	FY 2015/16	FY 2016/17
Category Modelling - Physicist or physical/mechanical/electrical engineer			
1. _____	\$ _____	\$ _____	\$ _____
2. _____	\$ _____	\$ _____	\$ _____
3. _____	\$ _____	\$ _____	\$ _____
Category Physics - Physicist or physical/mechanical/electrical engineer			
1. _____	\$ _____	\$ _____	\$ _____
2. _____	\$ _____	\$ _____	\$ _____
3. _____	\$ _____	\$ _____	\$ _____
Category Computer Science - Computer specialist or computer/software engineer			
1. _____	\$ _____	\$ _____	\$ _____
2. _____	\$ _____	\$ _____	\$ _____
3. _____	\$ _____	\$ _____	\$ _____
Project manager			
1. _____	\$ _____	\$ _____	\$ _____
2. _____	\$ _____	\$ _____	\$ _____

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2. **EQUIPMENT:** at laid down cost without markup
 3. **RENTALS:** at actual cost without markup
 4. **MATERIALS AND SUPPLIES:** at laid down cost without markup
 5. **TRAVEL AND LIVING EXPENSES:** in accordance with Section 7.1(iv) of the Contract.
 6. **SUBCONTRACTS (EXCEPT RESOURCES PROPOSED IN SECTION 1 - LABOUR) :** at actual cost without markup
 7. **OTHER DIRECT CHARGES:** at actual cost without markup

**Estimated Cost to a Limitation of Expenditure : \$860,000.00
(Applicable Taxes extra)"**

Modification 3 :

Attachment 1 - Evaluation of Price - is amended by deleting Section 2 - Calculation of bid price. The following section applies in lieu of that section.

"2 - Calculation of bid price

The bid price will be calculated as follows :

Bid price = Cost of labour

The Total Bid Price will be calculated as set out in section 3 below

The Bid Price will be evaluated on the basis of the following estimated level of effort :

Category Modelling - Physicist or physical/mechanical/electrical engineer	40%
Category Physics - Physicist or physical/mechanical/electrical engineer	10%
Category Computer Science - Computer specialist or computer/software engineer	40%
Project manager (PM)	10%"

Modification 4 :

Attachment 2 - Mandatory and Point Rated Criteria - is amended by deleting Section 1 - Mandatory Technical Criteria. The following section applies in lieu of that section.

“1. Mandatory Technical Criteria

At bid closing time, the Bidder must comply with the following mandatory technical criteria and provide the necessary documentation to support compliance. Any bid which fails to meet the following mandatory technical criteria will be declared non-responsive. Each criterion should be addressed separately.

Note : 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

- i. **At least one project manager with a minimum of 24 months of experience in R&D project management is assigned to the project. The project manager can also work on technical tasks in the contract.**
- ii. **The bidder must propose the minimum number of resources indicated below for each of the following three categories (Individuals proposed for Category 3 - Computer Science - can not be proposed for categories 1 and 2 - Modelling and Physics.) :**
 1. **Category: Modelling (minimum 3 resources)**
 2. **Category: Physics (minimum 2 resources)**
 3. **Category: Computer Science (minimum 2 resources)**
- iii. **All resources proposed for the Computer Science category must have a bachelor's, master's or doctoral degree in Computer Science or Computer Engineering or Software Engineering.**
- iv. **All resources proposed for the categories Modelling and Physics must have a bachelor's, master's or doctoral degree in Physics, Engineering Physics, Electrical Engineering or Mechanical Engineering.”**

Modification 5 :

Attachment 2 - Mandatory and Point Rated Criteria - is amended by deleting the section entitled “Training and Experience”. The following section applies in lieu of that section.

“TRAINING AND EXPERIENCE

- For each category of resources the bidder should identify the resources proposed.
- The bidder shall provide the names and curriculum vitae of the resources proposed.
- **Individuals proposed for Category 3 - Computer Science - can not be proposed for categories 1 and 2 - Modelling and Physics. Except as otherwise**

expressly provided, each person shall be evaluated separately and the total score for the resource category will be the average.

- Except as otherwise expressly provided, the minimum score indicated should be achieved by the team average and not by each of the resources proposed.
- For each staff category, the bidder should indicate the experience of the resource in terms of months. Experience acquired during practicums and the resource's studies cannot be counted.

DESCRIPTION	MINIMUM SCORE	MAXIMUM SCORE	EVALUATION FACTORS
2 – TRAINING AND EXPERIENCE	33	60	
2.1 – Experience of each resource proposed	11	20	
2.1.1 - Modelling category	5	10	<p>10 points: 60 months or more of experience in modelling</p> <p>6 points: 24 months or more of experience in modelling, but less than 60 months</p> <p>3 points: 12 months or more of experience in modelling, but less than 24 months</p> <p>0 points: Less than 12 months of experience in modelling.</p>
2.1.2 – Computer science category	6	10	<p>10 points: 60 months or more of experience with the C++ programming language</p> <p>6 points: 36 months of experience with the C++ programming language, but less than 60 months</p> <p>3 points: 12 months of experience with the C++ programming language, but less than 36 months</p> <p>0 points: Less than 12 months of experience with the C++ programming language.</p>

DESCRIPTION	MINIMUM SCORE	MAXIMUM SCORE	EVALUATION FACTORS
2.2 - Expertise of each resource proposed	22	40	
2.2.1 – Modelling category	9	14	<ul style="list-style-type: none"> • 24 months of experience with Matlab (3 pts) • 24 months of experience with Simulink (4 pts) • 6 months of experience with Mathworks RTW© (2 pts) • 12 months of experience with verification and validation processes (2 pts) • 12 months of experience with the creation of numerical models (3 pts)
2.2.2 – Physics category (For this category only: - Each individual will be evaluated separately and the total score for the resource category will be calculated by summing the points. - The minimum score indicated will be achieved by the sum of the team and not by each of the proposed resources)	2	6	<ul style="list-style-type: none"> • 12 months of experience with physical phenomena surrounding electro-optics (2 pts) • 12 months of experience with physical phenomena surrounding guidance, navigation and control (2 pts) • 12 months of experience with physical phenomena surrounding flight mechanics (2 pts)
2.2.32 – Computer science category	10	20	<ul style="list-style-type: none"> • 24 months of experience with UML (4 pts) • 12 months of experience with the C++ QT library (2 pts) • 12 months of experience with OpenGL programming (1 pt) • 12 months of experience with XML (2 pts) • 6 months of experience with Matlab (1 pt) • 6 months of experience with Simulink (2 pts) • 6 months of experience with Mathworks RTW© (1 pt) • 12 months of experience with verification and validation processes (3 pts) • 12 months of experience with the creation of numerical models (2 pts) • 6 months of experience with physical phenomena surrounding electro-optics (2 pts)

”

Question 6 :

- ATTACHMENT 2 - MANDATORY AND POINT RATED TECHNICAL CRITERIA

- Point Rated Technical Criteria 2. TRAINING AND EXPERIENCE.

Why does Canada refuse "Experience acquired during practicums and the resource's studies" ?

Answer : For the kind of work that is required in this Contract, we consider that the experience acquired during studies has not the same value as the one acquired in enterprise. The tasks will often require working with well-established development processes and will require a team effort.

Question 7 :

- ATTACHMENT 2 - MANDATORY AND POINT RATED TECHNICAL CRITERIA

- Point Rated Technical Criteria 2. TRAINING AND EXPERIENCE

- Criterion 2.2.1. Can Canada accept that the experience required for this criteria be coming from a group of individuals rather than a single individual?

Answer : Yes, Canada can accept a group of people composed of experts in modelling and experts in physic. However, the contribution of the experts in physic will be limited in the following criteria: 12 months of experience with physical phenomena surrounding electro-optics (2 pts), 12 months of experience with physical phenomena surrounding guidance, navigation and control (2 pts) and, 12 months of experience with physical phenomena surrounding flight mechanics (2 pts). Therefore, the expertise of the experts in physic will be ignored in all other criteria. (See modifications 3 to 5 above.)

Question 8 :

- ATTACHMENT 2 - MANDATORY AND POINT RATED TECHNICAL CRITERIA

- Point Rated Technical Criteria 2. TRAINING AND EXPERIENCE

- Criterion 2.2.2. Computer science category

Can Canada accept that the experience required for this criteria be coming from a group of individuals rather than a single individual?

Answer : No, having a computer expert who understands the physical phenomena surrounding electro-optics is very important in this Contract because the resource might have to modify modules requiring notions in electro-optics. This experience fully justifies the two extra points.

Question 9 : How much money is it expected to spend this year (by the end of March 2014) on this Contract?

Answer : No tasks will be activated in the current fiscal year. (See modification 2 above.)

*** All the other clauses and conditions remain unchanged ***