

Vessel and Crew to Support the Natural Resource Canada's 2017 Arctic Marine Geoscience Seabed Survey

APPLICATION FORM

1. INSTRUCTIONS

- i) Proposals will be evaluated in accordance with the Mandatory Criteria and Statement of Work detailed herein. A Bidder's Proposal must clearly demonstrate that they meet the entire requirement in the Mandatory Criteria and Statement of Work for the Proposal to be considered for further evaluation. Proposals not meeting the Mandatory Criteria and Statement of Work will be excluded from further consideration.
- ii) All Proposals are to be submitted using this Contractor's Application Form provided. **The Bidder must clearly demonstrate on the Contractor's Application Form how they meet each Mandatory Criteria and Statement of Work. The Bidder must provide all supplemental material referenced on the Contractor's Application Form, which supports the response (e.g., vessel schematics, Curriculum vitae, etc.) or serves as proof of a response for validation purposes (e.g. vessel certificates, crew certificates, etc.).**
- iii) **Bidders must provide proof of Contractor capability and vessel's capacity to meet the Mandatory Criteria and Statement of Work.** Copies of all relevant certificates must be included in a Bidder's submission as proof. References to certificates (e.g., in Curriculum vitae) is not considered proof, as it cannot be substantiated. Should a Bidder not provide certain information, at its discretion the Contracting Authority may follow-up with the Bidder to get the information for verification purposes. Notwithstanding, the onus remains on the Bidder to submit all information and proof needed to clearly demonstrate that all Mandatory Criteria and Statement of Work requirements are met.
- iv) At the discretion of the Project Authority, a vessel inspection may take place after contract award and prior to commencement of the contract period.

COPY OF REGISTRATION AND ALL CERTIFICATES ARE MANDATORY WITH SUBMISSION

VESSEL SCHEMATICS AND A RECENT COLOUR PHOTOGRAPH THAT CLEARLY REFLECTS THE PRESENT APPEARANCE OF THE VESSEL ARE REQUIRED

2. PART I – VESSEL & OPERATOR INFORMATION

The Oceanographic Research Vessel named _____ is hereby offered for services by the undersigned and, on the date of signature by the operator(s), is equipped as listed and described below:

NAME OF OPERATOR(S)	Address	Phone
_____	_____	_____
_____	_____	_____
_____	_____	_____

NAME OF CAPTAIN(S)	Address	Phone
_____	_____	_____

NAME OF BOSUN(S)	Address	Phone

3. PART II – MANDATORY CRITERIA

No.	MANDATORY CRITERIA	BIDDER RESPONSE	Proposal Page No.
	Vessel and Gear		
M1	The Bidder must provide an unconditional, valid copy of the vessel's Transport Canada certificate <u>Minimum Safe Manning Document – Convention</u> with a Trading Area of <i>Unlimited Voyage</i> , or international equivalent, for the duration of the contract.		
M2	Vessel must meet the Marine Emergency Duty (MED), first aid, operator competency, and basic safety training requirements, as per applicable Transport Canada minimum certification and basic training requirements of non-pleasure vessels.		
M3	The Bidder must provide proof that the vessel has experience conducting oceanographic piston coring operations within the last 2 years.		
M4	The bidder must provide details (dimensions, weights, components, deployment & recovery procedures) for piston coring operations.		
M5	The bidder must provide details (manufacturer, model, frequency) for supplied sub-bottom profiler.		

No.	MANDATORY CRITERIA	BIDDER RESPONSE	Proposal Page No.
M6	The bidder must provide details (manufacturer, model, frequency) for supplied multibeam system.		
M7	The bidder must provide a General Arrangement (GA) of the vessel and deck that clearly shows the proposed location of winches/A-frames, container location, laboratory work areas, and storage areas specifically required to support operations, as detailed in the Statement of Work.		
	Captain and Crew		
M8	The Bidder must provide proof that the Captain(s) of the vessel possesses a certificate of competency that meets or exceeds the operation for size (gross tonnage) of the vessel and the area of Work (<i>Unlimited Voyage</i> or international equivalent).		
M9	The Bidder must provide proof that the crew and individual crew members meet the Marine Emergency Duty (MED), first aid, operator competency, and basic safety training requirements, as per applicable Transport Canada minimum certification and basic training requirements for crews and individual crew members of non-pleasure vessels.		
M10	The Bidder must provide proof that the Captain(s) and Bosun(s) have experience conducting oceanographic piston coring operations within the last 2 years.		
M11	The Bidder must provide documentation from an insurance broker or an insurance company licensed to operate in Canada stating that the Bidder, if awarded a contract as a result of the bid solicitation, can be insured in accordance with all conditions including Insurance Requirements.		
	Health and Safety		
M12	The Bidder must provide a Health and Safety Plan that is consistent with Transport Canada Safety Inspection Certificates or international equivalents.		

4. PART II – STATEMENT OF WORK REQUIREMENTS

No.	STATEMENT OF WORK REQUIREMENTS	BIDDER RESPONSE	Proposal Page No.
	Vessel Requirements		
M13	The vessel must be capable of conducting scientific sediment sampling and hydroacoustic data collection, as described below, in Sea-state 5 conditions (Beaufort Scale 6: wind speed 22-27 knots; wave height 2.5-4.0 m), which can be typical conditions in the survey areas in August through October. Given these conditions, a vessel at least 45 metres (m) [147 feet] in overall length would be expected.		
M14	The Bidder must provide an unconditional, valid copy of the vessel's Transport Canada certificate <u>Minimum Safe Manning Document – Convention</u> with a Trading Area of <i>Unlimited Voyage</i> , or international equivalent, for the duration of the contract.		
M15	The vessel must have valid Transport Canada Safety Inspection Certificates or international equivalents.		
M16	The vessel must have lifesaving equipment sufficient for both the crew and 14 scientific personnel (14 individuals).		
M17	The vessel must accommodate 14 scientific personnel (14 individuals consisting of both genders) required for the duration of the mission. <ul style="list-style-type: none"> • provide sleeping accommodations; • provide a minimum of 3 on-board meals per day; • provide drinking water; and • provide flushing toilets, sinks, shower's and hot water. 		
M18	The vessel must have a multibeam echosounder capable of imaging the seabed and water column in water depths up to 1500 m (or greater), while surveying at 8 knots.		
M19	The vessel must have a sub-bottom profiler (3.5 kHz or similar) capable of imaging the sub-seabed in water depths up to 2000 m, while surveying at 10 knots.		

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M20	<p>The vessel must have an oceanographic winch(es) (with cable), measuring block, and A-frame that is capable of:</p> <ul style="list-style-type: none"> • Deploying and retrieving a 10-m piston coring system, Box Corer, Dredge, Drop Camera in water depths up to 3000 m; 		
M21	<p>The vessel must have sufficient working deck with sufficient space to assemble a 10-m long piston corer. This area (for coring and other operations) must not have any obstructions.</p>		
M22	<p>The vessel must provide laboratory space for sample processing and have:</p> <ul style="list-style-type: none"> • sufficient capacity and bench space to accommodate the processing of 1.5 m long sediment core sections; • have at minimum one (1) sink to dispose of water; • have access to a clean source of running fresh water; • have means to secure equipment and supplies to lab benches, in support of science laboratory operations in heavy seas. 		
M23	<p>The vessel must provide a stable (120V) power supply for up to 10 Natural Resource Canada (NRCan) computers in the lab(s).</p>		
M24	<p>The vessel must have a local area network (LAN) for up to 10 NRCan computers in the lab(s).</p>		
M25	<p>The vessel must provide access to navigation data (National Marine Electronics Association (NMEA) data strings for position, speed, and heading) in the lab(s) for logging by NRCan computers and instruments.</p>		
M26	<p>The vessel must provide satellite internet service available to science personnel for e-mail communication to shore at a minimum of 30 GB of service over the 40-day period.</p>		
M27	<p>The vessel must have sufficient dry space for storing NRCan equipment and sample boxes (minimum 20 m³ [215 ft³]).</p>		

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M28	The vessel must have sufficient space onboard to securely accommodate one refrigerated container (20' long, 8' wide, 20,000 kg max gross weight) that will be used for the storage of sediment samples.		
M29	The vessel must be equipped with a Zodiac, FRC, or similar craft that is capable of embarking and disembarking up to 4 personnel from the shore in Nunavut communities.		
M30	The vessel must have sufficient deck space and overhead clearances to deploy small quad copter aerial drones (1.5-m diameter) piloted by NRCan personnel.		
M31	The vessel must not dispose of any wastes in Nunavut waters.		
Captain and Crew Requirements			
M32	Captain and crew who can speak the English language must be available for each shift to ensure successful communication with scientific personnel.		
M33	Crew must provide a familiarization tour of the ship for scientific personnel and inform them of safety equipment and procedures, ensuring the safety of equipment and personnel throughout duration of the contract, and provide safe working areas on the ship.		
M34	Crew must be willing to assist with the loading and unloading of science equipment as required (e.g., shipboard crane operations, manual lifting if necessary, etc.).		
M35	Crew must operate all deck winches, A-frames and cranes required to deploy/recover scientific equipment described in this Statement of Work in accordance to information provided by the Chief Scientist.		
Vessel and Crew Availability			
M36	The vessel and crew shall be available for the full period of the contract.		
M37	The vessel and crew must be able to stay at sea for a period of up to 35 days without port resupplies.		

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M38	The vessel and crew must be willing to berth or anchor at various ports in Nunavut, CANADA.		
M39	The vessel and crew shall accommodate two 12-hour science personnel shifts (0600h-1800h and 1800h-0600h). Crew deckhand(s) must be available to operate winches and cranes during each science personnel shift.		
M40	A ship-supplied technician(s) must be on board and available 24-hour to trouble shoot, repair, and maintain ship-supplied science equipment and manage associated data collection. The technician(s) must also liaise with NRCan science staff for the duration of the Contract.		

*****Please use all the space you need to provide your responses to each requirement*****

Signature of (primary) Captain

Signature of Registered Operator(s)

PLEASE ENSURE THAT YOU HAVE PROVIDED ALL REQUIRED INFORMATION AND DOCUMENTATION