

REQUEST FOR INFORMATION (RFI)

ONR RFI Announcement # 13-RFI-0002

Title: Innovative methods or solutions of propulsion for a future amphibious vehicle

I. DISCLAIMER:

This announcement constitutes a Request for Information (RFI) for the purpose of determining market capability of sources or obtaining information. It does not constitute a Request for Proposals (RFP), a Request for Quote (RFQ) or an indication that the Government will contract for any of the items and/or services discussed in this notice. Any formal solicitation that may subsequently be issued will be announced separately through Federal Business Opportunities (FedBizOpps). Information on the specific topics of interest is provided in the following sections of this announcement. Neither ONR nor any other part of the federal government will be responsible for any cost incurred by responders in furnishing this information.

II. BACKGROUND:

Expeditionary forces of the future will be significantly more agile, mobile and survivable. Technologies will be developed to increase the warfighting capabilities and effectiveness of the Marine Air-Ground Task Force (MAGTF) with emphasis on improving mobility.

Office of Naval Research (ONR), Code 30, Maneuver Thrust Area, develops advanced technologies to increase the capabilities and effectiveness of the Marine Corps Air Ground Task Force (MAGTF), Naval Special Warfare, Naval Expeditionary Combat Forces, and Marine Special Operations Forces and aid in the execution of the Global War on Terrorism. ONR Code 30 Maneuver Thrust is specifically seeking white papers explaining innovative methods and/or solutions of auxiliary propulsion and tip-driven, counter-rotating electric drives for primary propulsion for a future amphibious vehicle capable of achieving high speeds (15-25 knots) through various sea states with the ship-to-shore objective. The corresponding required thrust range is 1,500 – 22,300 lbs.

III. SPECIFIC INFORMATION OF INTEREST:

In its pursuit of enhanced and unmatched agility, mobility, and survivability for the future expeditionary forces, ONR 30 is seeking information from US and non-US sources to identify new innovative concepts, areas of research and approaches to provide conventional and non-conventional boosting power to deliver enhanced thrust and possible lift of the amphibious vehicle. There is a need for superior amphibious mobility for Ship To Objective Maneuver (STOM).

The offerers are free to propose:

- Any technology that is currently available (high Technology Readiness Level) to futuristic solutions (low Technology Readiness Level). Please provide the range of deliverable thrust and the weight of the device.
- Any and all propulsion systems, but higher power density and smaller volume will be of greater interest.

- Any technologies mounted to any portions of the vehicle (the transom, the underside, the outside, etc.) One approach is a strap-on, removable, and stowable auxiliary propulsion appliqué system.
- Any technologies for primary propulsion, such as a tip-driven, counter-rotating electric drive propulsor, are also of interest.

IV. SUBMISSION INSTRUCTIONS and FORMATTING REQUIREMENTS

- a. Responses are requested by July 16, 2013. Any response received after this date will also be considered but may not be included in initial reporting or assessments.
- b. All responses should be in PDF format and emailed to the technical point of contact: Jillyn Alban, Jillyn.alban@navy.mil (cc: Jillyn.n.alban.civ@mail.mil). The subject line of the email should read as follows “RFI: Innovative methods/solutions of propulsion for a future amphibious vehicle

Unclassified/Classified RFI Responses:

All response should be unclassified. If desired, a classified supplement may be submitted separately. Please contact the Technical Point of Contact for directions on submission of any sensitive or classified information. All information received in response to this RFI that is marked proprietary will be handled accordingly. Responses to this notice will not be returned.

- c. Responses should not exceed 5 pages and should be typed in 12-point Times New Roman font, single spaced, with 1-inch margins.
- d. A suggested submission organization:
 1. Cover Sheet – RFI number and name, address, company, technical point of contact, with printed name, title, email address and date.
 2. Table of Contents with page numbers
 3. Technical dataNo cost or pricing information should be provided. Any received will be deleted and destroyed.

V. QUESTIONS AND POINT OF CONTACT

Questions of a technical nature regarding this RFI may be sent to the following Technical Point of Contact:

Name: Jillyn Alban

Title: Program Officer

Office of Naval Research

Division Code: 30

Address: 875 N. Randolph Street, Arlington, VA 22203

Email Address: Jillyn.alban@navy.mil (please cc: Jillyn.n.alban.civ@mail.mil)