

**REQUEST FOR INFORMATION (RFI)**  
**ONR RFI Announcement # N00014-17-RFI-0002**

**Title: Office of Naval Research, Air Warfare and Naval Weapons Applications Division  
(Code 352) Future Naval Capability Survey of Industry Science and Technology  
Investments**

**I. DISCLAIMER:**

- a. This announcement constitutes a Request for Information (RFI) for the purpose of determining market capability of sources and 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 the Office of Naval Research (ONR) nor any other part of the federal government will be responsible for any cost incurred by responders in furnishing this information.

**II. BACKGROUND:**

- a. The ONR Future Naval Capability (FNC) Program was conceived in 1999 to address the perception that ONR had too few programs with sufficient funding to reach technical maturity for transition to acquisition. The FNC program was designed to focus Science & Technology (S&T) critical mass on highest priority capabilities of the Naval Forces, and ensure focused transition to acquisition. The FNC program develops and delivers quantifiable technologies (e.g., prototype systems, knowledge products, and technology improvements) in response to validated requirements for insertion into acquisition programs of record.
- b. Information received by ONR will be used to determine industry capabilities and thus help validate the Government's requirements for future solicitations. Information from this research could be used to establish promising areas of technology development and investment under the ONR FNC Program.
- c. Based on the information received, the Government may issue a Broad Agency Announcement (BAA) to select certain technologies for development and testing at various facilities.

**III. SPECIFIC INFORMATION OF INTEREST:**

- a. It is anticipated that the information received will reflect the best available technology assessments from those companies, universities and other research entities that are particularly knowledgeable in the fields of Naval air warfare, Naval aircraft (both

manned and unmanned), and Naval weapons (to include air, surface and sub-surface launched weapons, with the exclusion of torpedoes). Consolidated technology assessments from groups of performers are not anticipated. The Navy will analyze the information received and reach its own independent conclusions regarding any FNCs that might be included in later year solicitations.

- b. Conditions that typically exist prior to FNC initiation are:
- Prior Science & Technology (S&T) investment to reach an entry level criterion of Technology Readiness Level (TRL) 3 to 5 to start the FNC, with a plan to reach TRL 6 at completion of the FNC. For TRL descriptions refer to “Technology Readiness Assessment (TRA) Guidance” Prepared by the Assistant Secretary of Defense for Research and Engineering (ASD(R&E)), revision posted 13 May 2011, available at: <http://www.acq.osd.mil/chieftechnologist/publications/docs/TRA2011.pdf>
  - Two to five years FNC period of performance to mature the TRL level
  - Be transitionable to a Navy or Marine Corps acquisition program
- c. The information received regarding industry capabilities should fall within the scope of responsibility of ONR Code 352, which includes:
- Fixed and rotary wing air vehicle structure, subsystems, and flight controls
  - Rotorcraft aeromechanics
  - Vertical / short takeoff and land systems
  - Ship / Aircraft interface
  - Unmanned Air Vehicles (UAV)
  - UAV and/or weapon autonomous operations, mission planning, dynamic replanning, command and control, and multi-vehicle coordinated operations (including sensors and/or communications)
  - Air vehicle propulsion
  - Directed energy weapons
  - Air, subsurface and surface launched weapons and airborne precision targeting systems
- d. ONR Code 352 will host a SECRET-Level Industry Day in conjunction with this RFI. Information for registration and security clearance requirements will be available through the ONR Events website:

<https://www.onlineregistrationcenter.com/airwarfareindustryday>

Due to capacity limitations, the Government reserves the right to limit the number of participants per contractor (or business unit, as applicable) and federal agency.

The intent is to present information at a classified level about Naval S&T Capability Gaps in which ONR Code 352 has specific interests. This information will be available only at the Industry Day, and will not be otherwise transmitted or made available elsewhere. ONR will not sponsor or assist uncleared respondents in obtaining a security clearance for purposes of attendance at this Industry Day. Respondents should closely

monitor the ONR Events website listed above for information about the date, time, location and security instructions, as this information may be updated at any time with no other notification. Attendance at this ONR Code 352 SECRET-Level Industry Day is not required in order to submit responses to this RFI in accordance with Section IV below.

#### **IV. SUBMISSION INSTRUCTIONS and FORMATTING REQUIREMENTS**

- a. Responses are requested by **28 April 2017** for possible FY20 New Start FNCs and by **28 April 2018** for possible FY21 New Start FNCs. Out year responses are anticipated to follow a similar calendar.
- b. All responses shall be submitted electronically in PDF format and emailed to the technical point of contact: Roger Sullivan (roger.sullivan@navy.mil). The subject line of the email should read as follows “RFI: ONR Code 352 FNC Survey of Industry S&T Investments.”
- c. ONR is seeking from responders a one (1) page unclassified quad chart focusing on one or more aspects of the ONR 352 technologies outlined above in section III.c. An additional optional written description, which elaborates on the quads, will be accepted, but should not exceed five (5) pages.
  - All quad chart responses should be unclassified. If desired, a classified supplement may be submitted separately, in addition to an unclassified quad chart. Please contact the Technical Point of Contact for directions on submission of any sensitive or classified information. Responses to this notice will not be returned.
  - Submission organization:
    1. Cover Sheet – RFI number and name, address, company, technical point of contact, with printed name, title, email address and date.
    2. The informational Quad Charts should be unclassified. They will be distributed with a Distribution D statement allowing DoD and DoD Contractors to view the quads. This should be a single slide in MS PowerPoint format. A template will be available on the ONR events registration website listed in section III.d. An optional written description providing additional technical data may be included as well, which should not exceed five (5) pages and include the following:
      - a) Executive summary
      - b) Detailed description of the technical solution proposed
- d. Do not provide cost or pricing information. Any received will be deleted and destroyed.

#### **V. QUESTIONS AND POINT OF CONTACT**

- a. Responses to this RFI must be sent to the following Point of Contact:

Name: Roger Sullivan

Title: Program Officer  
Division Title: Air Warfare and Naval Weapons Applications Division  
Division Code: 352  
Address: 875 N Randolph St, Arlington VA 22203  
Email Address: [roger.sullivan@navy.mil](mailto:roger.sullivan@navy.mil)

- b. Technical questions may be addressed to any or all of the following:

Name: Ken Heeke  
Title: Code 35 FNC Lead  
Division Title: Air Warfare and Naval Weapons Applications Division  
Division Code: 352  
Address: 875 N Randolph St, Arlington VA 22203  
Email Address: [kenneth.heeke@navy.mil](mailto:kenneth.heeke@navy.mil)

Name: Jerry Kong  
Title: Program Officer  
Division Title: Air Warfare and Naval Weapons Applications Division  
Division Code: 352  
Address: 875 N Randolph St, Arlington VA 22203  
Email Address: [jerome.kong@navy.mil](mailto:jerome.kong@navy.mil)

Name: Roger Sullivan  
Title: Program Officer  
Division Title: Air Warfare and Naval Weapons Applications Division  
Division Code: 352  
Address: 875 N Randolph St, Arlington VA 22203  
Email Address: [roger.sullivan@navy.mil](mailto:roger.sullivan@navy.mil)



# Quad Template

(Replace above title with name of candidate technology.)

**Technical Description:** *Include:*

- Succinct / comprehensible description of Technology; to include:
  - Use or purpose for technology; and
  - Identification of S&T elements
- Current TRL & Projected FY20 TRL
- Characterization of overall technical risk
- Number of years for development (2-4)
- ROM Total Cost
- Basic/Applied Research [program] or other technologies on which the FNC proposal would be based (if known)

**Technical Point of Contact:**  
*Include: Name(s) / Organization / Telephone / Email*

**Operational Impact / Benefit to Warfighter:**  
*Identify (as applicable):*

- New Capabilities Delivered
- Improvements In Current Performance

*Try to capture:*

- Cost Savings / Bang for the Buck
- Military Utility

**Technology Driver:** *Identify (as applicable):*

- Fleet / Force capability need
- If Roadmap or DoD requirements exist, so state.

**Transition Target Acquisition Program(s):**  
*Identify to the extent possible:*

- Name of Target Acquisition Program of Record, or
- Name of Target New Start Acquisition Program
- Program Office and Program POC (name / telephone / email)