Office of Naval Research: Organization and Funding Opportunities

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About the Office of Naval Research (ONR)

• The Department of the Navy’s S & T Provider.
• Coordinate, execute, and promote the S & T programs of the U.S. Navy and Marine Corps.
• Founded in 1946.
• The Naval S & T Strategic Plan describes how ONR sponsors scientific research that will enable the future operational concepts of the U. S. Navy and Marine Corps.
• ONR’s six S & T Departments coordinate and execute the research investment strategy outlined in the Naval S & T Strategic Plan.
ONR’s Six S & T Departments

- **Code 30: Expeditionary Maneuver Warfare & Combating Terrorism**
  - Develops and transitions technologies to enable the Navy-Marine Corps team to win and survive on the battlefield.

- **Code 31: Command, Control Communications, Computers, Intelligence, Surveillance, and Reconnaissance**
  - Focus on experimental and theoretical research and technologies in these areas.

- **Code 32: Ocean Battlespace Sensing**
  - Explores S & T in the areas of oceanographic and meteorological observations, modeling and prediction in the battlespace environment; submarine detection and classification (anti-submarine warfare); and mine warfare applications for detecting and neutralizing mines in both the ocean and littoral environment.

- **Code 33: Sea Warfare & Weapons**
  - Develops and delivers technologies that enable superior warfighting and energy capabilities for naval forces, platforms, and undersea weaponry.

- **Code 34: Warfighter Performance**
  - Enhances warfighter effectiveness and efficiency through bioengineered and biorobotic systems, medical technologies, improved manpower, personnel, training and system design.

- **Code 35: Naval Air Warfare and Weapons**
  - Supports the Navy’s power projection needs, fostering the technology development of naval aircraft, structures, propulsion, autonomy, energetics, directed energy and electric weapons.
Funding Opportunities

- **Broad Agency Announcements (BAAs)**
  - R&D opportunities for non-governmental organizations. Usually also advertised on fedbizops.
- **University Research Initiatives**
  - Defense University Research Instrumentation Program (DURIP)
  - Multidisciplinary University Research Initiative (MURI)
- **National Ocean Partnership Program (NOPP)**
  - ONR Code 322 participates in NOPP
- **Faculty Development**
  - Young Investigator Program (YIP)
  - Presidential Early Career Award for Scientists and Engineers (PECASE)
  - Education/Outreach efforts aimed at students, postdocs, faculty
- **ONR Global**
  -(foreign collaborations, conferences, etc)
- **Small Business Innovation Research (SBIR) Program / Small Business Technology Transfer (STTR) Program**
  - Solicitations for small businesses; STTR requires non-profit research partner so universities are eligible
ONR Proposal Development

1. Plan early, gather information
   – Which ONR program is best for you?
   – Connect with ONR Program Manager
     • Is your research relevant to their program?
     • Is funding available? Which solicitation?
     • Process and timing
       – Pre-proposal – due date, how to submit and to whom?
       – Full proposal – due date, how to submit?
ONR Proposal Development

2. Read the Solicitation!
   - Are you eligible? Some BAA’s/RFA’s are for certain applicants, e.g., YIP
   - Note due dates, and allow for internal processing at your institution
   - Note text format – font size, line spacing, margins
     • If its hard to read, it may not fare well
   - Note document format instructions (and follow them!) - page # limit, cover page, proposal sections, budget maximum, etc
     • If you have questions, contact person noted in BAA or the PO
   - Recombinant DNA, vertebrate animals and human use studies require additional documentation
ONR Proposal Development

3. Understand the evaluation criteria!
   – Do not omit any requested information
   – In most cases, the technical proposal isn’t the only important component
   – Talk to the program officer if you have questions
ONR General BAA: Proposal Development Process

• Pre-proposals/planning letters & discussion with Program Officer in Spring-Summer preceding start of FY (October).
  – Code 32 generally has a formal call for planning letters in the Spring with invitations for full proposal submission in Summer.

• E-mail or phone call program officer(s) first.

• A pre-proposal (planning letter, white paper) generally advised

• Proposals – generally only after discussion with Program Officer

• Academic institutions, non-profits, and corporations: Submit in response to ONR’s Long Range Broad Agency Announcement (BAA) for Navy and Marine Corps Science and Technology) ONRBAA 15-001
  • [http://www.onr.navy.mil/~media/Files/Funding-Announcements/BAA/2015/15-001.ashx](http://www.onr.navy.mil/~media/Files/Funding-Announcements/BAA/2015/15-001.ashx)
  • Appropriate for grants or contracts
  • Valid until 30 Sept 2015
University Research Initiatives

DURIP - *Defense University Research Instrumentation Program*

- Funds the acquisition of major research equipment to augment current, or develop new research capabilities in support of DoD-relevant research
- Published annually
- Can request $50k to $1M, but most awards are in the $100-400K range.
- 2015 proposals due 11/17/14 @ 4:00 PM
University Research Initiative

MURI – *Multidisciplinary Research Program of the University Research Initiative*

- Supports teams of researchers investigating multi-disciplinary topics
  - Can be one or multiple universities
  - Different research topics specified by ONR/ARO/AFOSR each year
    - 23. Air-Sea Interaction and RF Propagation in Maritime Atmospheric Boundary Layers
    - 24. Hydrodynamics of Non-traditional Propulsion
- Solicitation published annually.
- Fundamental research
- Awards typically 3 years with 2 additional option years
- Funding levels: $1.5M per year, per topic
- [http://www.onr.navy.mil/~/media/Files/Funding-Announcements/BAA/2013/13-022.ashx](http://www.onr.navy.mil/~/media/Files/Funding-Announcements/BAA/2013/13-022.ashx)
- White papers due 10/15/13.
National Ocean Partnership Program (NOPP)

• ONR Code 322, the Ocean, Atmosphere and Space Research Division, participates in NOPP
Faculty Development

YIP – Young Investigator Program

• Awarded to academic researchers (U.S. citizens or permanent residents) who started their 1\textsuperscript{st} or 2\textsuperscript{nd} full-time, tenure-track-equivalent appointment within the past 5 years.

• Awards: $170k per year, 3 years, with possibility of additional support for capital equipment.

• Important to talk to program officer to make sure your idea is relevant and that it’s the right time in your career to apply.
PECASE – Presidential Early Career Award for Scientists and Engineers

- Highest honor bestowed by the U.S. government on outstanding scientists and engineers beginning their independent careers.

- Individual must be a U.S. citizen or permanent resident.

- Nominated by ONR/ARO/AFOSR program officers. Call for nominations generally in November.

- 5 year award at $200K per year.
Educational Programs

• ONR has several student and faculty programs, typically aimed at summer research in a Navy laboratory, or a sabbatical.

• Faculty and/or student works with a Navy scientist at Navy lab. Must be US Citizen/legal permanent resident.

• See link: www.onr.navy.mil/Education-Outreach.aspx

• Excellent way to learn first-hand about Navy research interest areas.
Educational Programs

• ONR also funds STEM proposals for K-12 and Higher Education

http://www.onr.navy.mil/~media/Files/Funding-Announcements/BAA/2014/14-002.ashx

• Aim is to fund R&D on STEM education
ONR Global

- ONR has offices in the London, Prague, Tokyo, Singapore and Santiago [http://www.onr.navy.mil/About-ONR/Locations.aspx](http://www.onr.navy.mil/About-ONR/Locations.aspx)


SBIR and STTR

SBIR – *Small Business Innovation Research Program*
STTR – *Small Business Technology Transfer Program*

- Two separate programs
- Research focused on development of dual-use technologies (military and private)
- Participants must submit proposal for work on a posted topic. Topics developed each year by DOD components.
- Small companies are <500 employees
- STTR must partner with a non-profit research institute, university or Federally funded R&D center.
- More information at
  - [www.navysbir.com](http://www.navysbir.com)
  - [www.dodsbir.net](http://www.dodsbir.net)
Important Links

• ONR home page
  – www.onr.navy.mil

• Proposal submission
  – www.grants.gov

• Broad Agency Announcements
  – www.onr.navy.mil “Home” » Contracts & Grants » Funding Opportunities » Broad Agency Announcements

• SBIR/STTR
  – DoD SBIR: www.dodsbir.net
  – Navy SBIR: www.navysbir.com

• Naval Science and Technology Strategic Plan