



Naval Research Enterprise

ONR Global is 6 technical departments connecting: international research and technology, capability development, international military partners, and the US Navy and Marine Corps.









Foreign Comparative Test

Capability Development

U.S.NAVAL RESEARCH LABORATORY

Sea Platforms

International Engagement



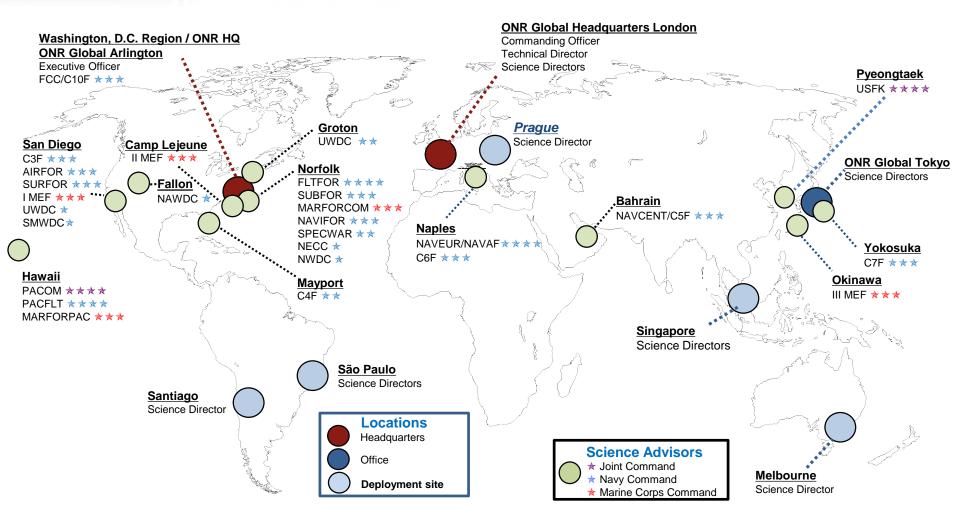
International Naval Partnerships

International Research

ONRG - The partner of choice for science and technology leaders



Investing in Trusted Partnerships

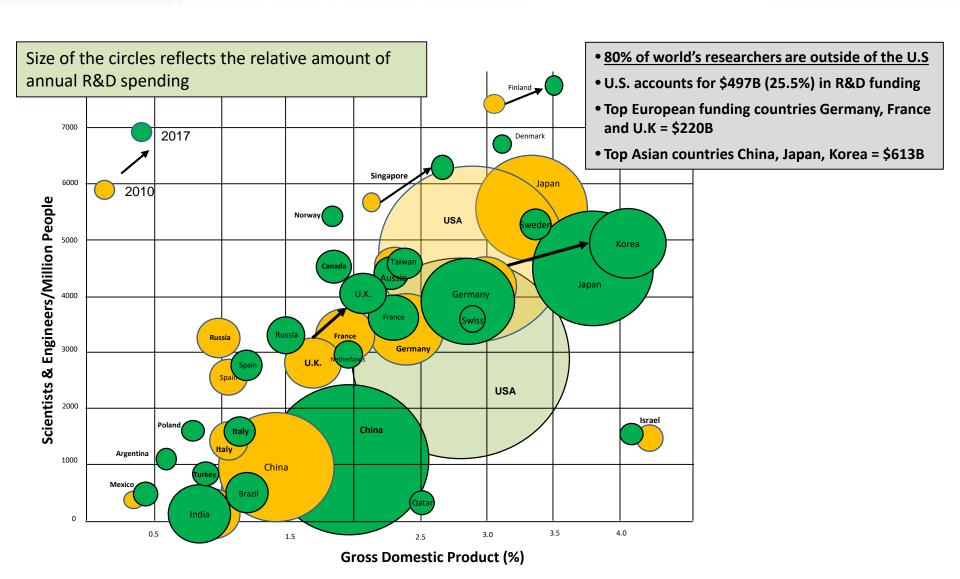


Focus: International research & partnerships, connecting S&T to fleet/force, global technical awareness



Why International Science?

International S&T is Outpacing the US





Collaboration Opportunities

Research Grants

- Cooperative Agreements and/or Grants
- Relevant to BAA technical focus areas

\$25-\$150k/year 6 mon - 3 yrs

Visiting Science Program

- Travel grant
- Travel to a US Navy Lab or Center to collaborate/plan

\$1-3k Single trip

Collaborative Science Program

- Small, scientifically focused
- Workshops, seminars, conferences

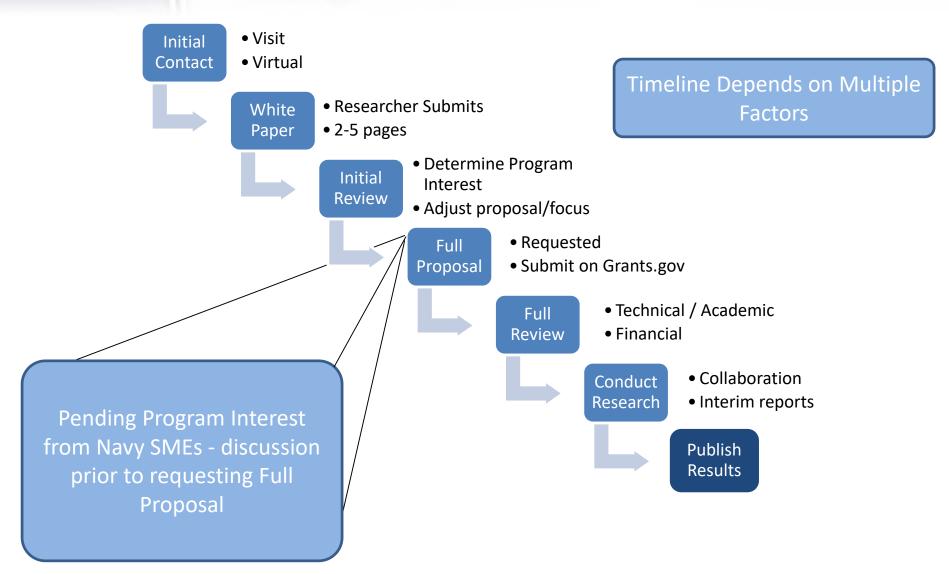
\$3-5k Single event

Small early investments can lead to significant results

For detailed information about our current research interests and our grant programs, please look at our websites: www.onr.navy.mil/global (describes ONR Global, including grant programs)



Proposal Process





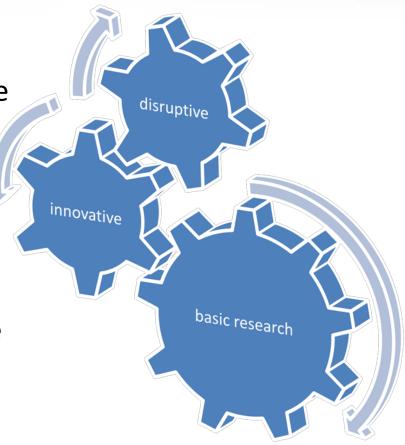
Engagement Opportunities

 Intellectual property remains with the Principal Investigator

 Government Purpose Rights (nonexclusive/non-commercial use of the IP)

- Funding goes to non-U.S. based
 Principal Investigators and institutions
- Government organizations not eligible
- We encourage openly publishing results/outcomes

Our Goal: New relationships with top researchers in key areas

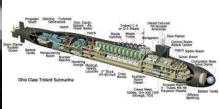




Current Czech Projects

- The Cocktail Party Problem
 - Technical University of Liberec





- Early Warning for Heart Stress
 - Brno University of Technology





- Navigating Without Satellites
 - West Bohemia University (Plzen)





Czech Research Institutes Supported by Navy and Army













Palacký University Olomouc



Office of Naval Research

Science & Technolog









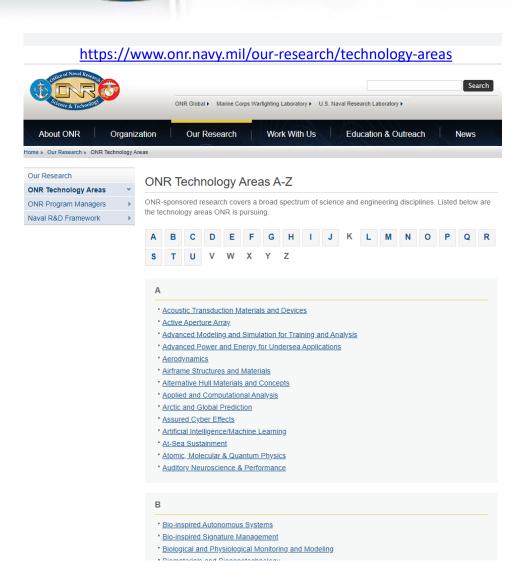
ONRG Prague Office Activities

Current Engagements





Fields Currently Funded by ONR



This website lists technology areas we currently fund

If your topic fits one of these technology areas, that is great ...

but we are open to new ideas too!



Addressing Current Challenges

International seminar on Post-COVID illness in adults and children



ohledu na závažnost proběhlé nemoci i po mírné infekci. Kvalitu života dlouhodobě zhoršuje i aktivním mladým lidem a dětem. Proto se musí chránit. Poděkování

@USEmbassyPrague za organizaci dnešního semináře s kolegy z USA a Itálie.

Translate Tweet



COVID-19: ONR Global (US Embassy Prague Office) and the British Embassy Prague cohosted an international workshop to facilitate cross-collaboration and novel approaches

- Participants included
 COVID-19 experts from
 the US, UK, Czech
 Republic, Slovakia, Poland,
 Slovenia, Serbia, Hungary,
 Bulgaria, and Turkey
- Discussions revealed insights about national strategies for genomic sequencing, unique challenges, best practices, and applications of novel technologies and approaches



- Bi-lateral exchange on COVID mitigation strategies in schools with Czech Ministries of Health and Education
 - Result: Czech advisory committee to the Ministry of Health recommended mandatory masking



Mission Prague Initiative: Equal Opportunity



CZECH WOMEN IN AI (CWAI)

The US Embassy and the US Office of Naval Research (ONR) Global are proud to have hosted the inaugural reception for the Czech Women in AI (CWAI) professional network on 14 October 2020.

ONR Global Science Director Dr. Stephen O'Regan opened the reception and Deputy Chief of Mission Ms. Jennifer Bachus delivered the keynote address. Following remarks by the Steering Committee, a select group of American women called in from abroad to share their networking experiences as women working in science and technology fields.

The 26+ strong CWAI group shared their aspirations for the network during a lively brainstorming discussion guided by the CWAI Steering The 4-member Steering Committee, like the CWAI members, draws Committee, coalescing around six topics to drive future activities:

- Networking
- Events, Talent Search & Recruitment
- Studies, Research, Projects
- Promoting Women in Al, diversity and inclusion
- Education and outreach
- Deeper insight into Al field, knowledge sharing



from business, academia, and government:

- · Alžběta Krausová, Czech Academy of Sciences, Institute of State
- Zlata Straková, The Office of the Government of the Czech Republic, European Digital Agenda Unit
- Kateřina Anna Magnna, Microsoft -- Government Affairs Czech Republic & Slovakia
- Milena Jabůrková, IBM and Vice President Confederation of CZ Industry for Digital Economy and Education

For more information about CWAI, please contact Kateřina Anna Magnna by email Katerina.magnna@microsoft.com or by SMS 00420 702 041 709 ONR led the US **Embassy** initiative to promote the benefits of equal opportunity to the Czech Al community

https://www.youtube.com/watch?v=3i buRDqUGY

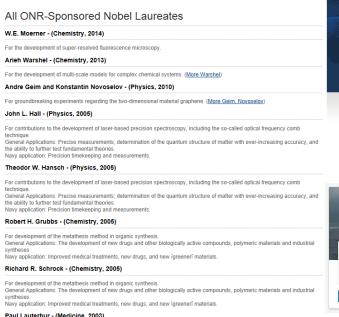


Where to Find Us Online



Scientific Peer Review

Visiting ONR



For his discoveries concerning "magnetic resonance imaging"







www.onr.navy.mil/Science-Technology/ONR-Global



Final Note

We succeed only when YOU succeed. Let us work together!

Please contact me by email: ONRG.Prague@mail.mil

Email me white papers with your relevant concepts



Thank You!

Martina Siwek, PhD
Science Director for Central and Eastern Europe
Office of Naval Research Global
U.S. Embassy Prague
martina.m.siwek.civ@mail.mil







Back-up Slides



ONR Focus Areas



ONR HQ

Office of Naval Research Global (ONRG)

Code 31 Information, Cyber and Spectrum Superiority



Code 32 Ocean Battlespace and Expeditionary
Access



Code 33 Mission Capable, Persistent and Survivable Naval Platforms



Code 34 Warfighter Performance



Code 35 Aviation, Force Projection and Integrated Defense



Code 36 Naval X

Focus Areas:

Naval Research Enterprise Addendum to the

NAVAL RESEARCH AND DEVELOPMENT FRAMEWORK

- Assure Access to Maritime Battlespace
- Autonomy and Unmanned Systems
- Electromagnetic Maneuver Warfare
- Expeditionary and Irregular Warfare
- Information Dominance Cyber
- Platform Design and Survivability
- Power and Energy
- Power Projection and Integrated Defense
- Warfighter Performance



Enduring Research Responsibilities

Amphibious Expeditionary Maneuver

Expeditionary fires and lethality
Expeditionary C4ISR
Hybrid threat defeat
Human performance and protection
Amphibious mobility
Logistics, sustainment and maintenance
Expeditionary power and energy
Lightening the load
Accelerated learning/decision making





Warfighter Supremacy

Undersea medicine
Biological sciences
Biorobotics
Capable manpower
Command decision making
Force health protection
Human-robot interaction
Noise-induced hearing loss
Training and simulation



Aviation, Force Projection & Integrated Defense

Directed Energy (DE) & Counter DE
Aerodynamics
Flight dynamics & control
Propulsion
Structures and materials
Energetic materials
Hypersonics
Autonomy



Information Cyber and Spectrum Superiority

Advanced RF electronics & materials
Communications and networking
Computational methods for decision making
Data science and analytics
Electronic warfare
Sensors and sensor processing
Machine learning, reasoning and intelligence
Resource optimization
Precision navigation & timekeeping



Undersea Battlespace and Maritime Domain Access

Arctic and global prediction
Littoral geosciences and optics
Marine mammals and biology
Marine meteorology
Maritime sensing
Ocean acoustics
Ocean engineering & marine systems
Physical oceanography
Research facilities
Space environment

Undersea signal processing



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GUIDELINES FOR PROPOSAL WRITING



- Most current BAA can be found on www.onr.navy.mil
- Submit proposal using http://grants.gov
 - ➤ Offeror shall use the Grants.gov form Standard Form SF424(r & R), the Research And Related Other Project Information, the Research & Related Budget, and Project Abstract forms from the application package template associated with the BAA on the Grants.gov web site. Assume that performance will start no earlier than three (3) months after the date the cost proposal is submitted.

Grant proposals submitted to ONRG should be in response to Broad Agency Announcement (BAA) of long-range ONR scientific projects

- Acquire DUNS (Data Universal Numbering System) number http://fedgov.dnb.com/webform
- ➤ Acquire NCAGE Code (NATO Commercial and Government Entity Code)
 - https://eportal.nspa.nato.int/AC135Public/default.aspx
- Register in SAM (System for Award Management)
 https://www.sam.gov

Proposals must be submitted through the Grants.gov



(Only Some of the) Guidelines for Writing Full Proposals

For VSP (travel) grants

- You must have a US Navy-approved researcher agree to host your visit
- The visit should be 1-5 consecutive business days.
- If you already are planning to go to the US for other reasons (for example, a conference), then the travel grant should only be to cover expenses between that US location to the US naval facility.
- Can you add personal days? Yes, at your own expense and not for more days than you would be at the US Navy research facility.

For CSP (conference) grants

- We expect (and encourage) you to have other sponsors.
- Conferences cost approximately 10-50 thousand USD. Your request from ONR Global should be 5-10 thousand USD. The approval rate decreases with the amount (~75% for 5000 USD, ~25% for 10000 USD).
- Allowable expenses for ONR Global funding
 - Venue rental & staffing
 - Publications (including website creation and managing)
 - Labor for planning (allowable but complicated)
 - Almost nothing else (but you can ask us, just in case)
- Expenses often requested and always rejected
 - Food, drink, transportation, lodging, registration fees, student stipends, and prizes
 - There are more expenses that ONR grants cannot cover
- You will need to provide cost quotes
- ONR Global requests registration fee waivers for up to 5 US government employees chosen by ONR Global



(Only Some of the) Guidelines for Writing Full Proposals

For Research project grants

- You should structure your project in annual stages
- The total duration can be 1, 2, or 3 years
- 90% of research grants have annual budgets between 40-80 thousand USD.
- Most of the funding must be for labor
- Keep your project team small (2-5 people) with 1-2 senior staff and a few graduate students or post-docs.
- Indirect costs cannot exceed 10% of the direct costs (labor + material + travel)
- Material cannot include equipment
- We expect very little travel in the first year. Typically, one conference in Europe for 1-2 people.
- Products: 1) annual report; 2) published articles in high-caliber scientific, peer-reviewed journals.
- Intellectual property: it belongs to your organization with one exception: the US government has the right to apply the intellectual property for its own internal uses free of charge.
- We will often seek other USG sponsors to share the cost.
- We are happy to have you find additional sponsors to share the cost too.
- We expect this project to be related to other projects performed in your department, even performed by you, but we also expect this project to be significantly different. We will ask you to estimate the overlap between this project and all your other projects. For example, if projects A and B have 10 and 20 tasks, respectively, and 3 of these tasks are the same ('measure X using equipment Y at date/time Z'), then B has 30% overlap with A and A has 15% overlap with B. Tasks serving different projects must have their costs shared accordingly.