Why You Should Consider an ONR Global Assignment

• **Lead** ONR Global’s vision to be the partner of choice for S&T leaders
• **Experience** unparalleled professional development and global engagement opportunities
• **Impact** Flag/General Officer-level decision making
• **Expand** your peer collaboration network opportunities and establish friendships that will last a lifetime
• **Strengthen** ties to international peers in your area of expertise

Take your personal and professional growth to the next level!
“...plan, foster and encourage scientific research in recognition of its paramount importance as related to... future naval power, and the preservation of national security...to obtain, coordinate and make available...world-wide scientific information”
The Naval Research Enterprise

4,000+ People
23 Locations
$2.1B / year
>1,000 Partners
ONR Global Mission
To obtain, coordinate, and make available world-wide scientific information.

ONR Global Vision
To be the partner of choice for science and technology leaders.

Actions driven by the mission
Serve Globally  Enduring presence  Trusted partnerships  Discover  Connect

Strategic Guidance
ONR Global Snapshot

ONR Global employs 6 departments to connect research, technology, and partners from around the world to the US Navy and Marine Corps.

Global Technical Awareness
Technology Scouts
International Partnerships

International Science

International Engagement
Mil-Mil Partnerships and Interchangeability
RDT&E Collaboration

Out-innovate, Tech overmatch
Operational Commander link

Science Advisors

TechSolutions

12 month Proposal-to-Prototype
Direct Fleet link

NRE
Integrated Research Portfolios

Code 31
Information, Cyber & Spectrum Superiority

Code 32
Undersea Battlespace & Maritime Domain Access

Code 33
Mission Capable, Persistent & Survivable Sea Platforms

Code 34
Warfighter Supremacy

Code 35
Aviation, Force Projection Accelerator & Integrated Defense

Code 36
Naval

Experimentation and Analysis
Hub of Experimentation
Decision-quality data

Foreign Comparative Test
Accelerated capability
International products
Long-term savings

A small, agile command.
Operating globally.
ONR Global
Invests in Trusted Partnerships
and is Present around the Globe

Locations

- ONR Global Headquarters
- ONR Global Office
- Deployment site

Science Advisor
- Joint Command
- Navy Command
- Marine Corps Command

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Science Director Functions

**Maintain** Global Tech Awareness and **Identify** disruptive S&T to avoid Naval technical surprise

**Build Relationships of Trust** through direct, regular contact with int’l researchers

**Connect** the NR&DE with International S&T

**Initiate** technically sound research grants & **Transition** research to an ONR portfolio

**Provide** ONR forward presence with global innovators and technologists

*Naval Research Enterprise’s Global S&T Scouts!*
Global Technology Awareness Visits
• Technical staff attend international events and visit international institutions to develop access and discover cutting edge S&T

Visiting Scientist Program (VSP)
• Support travel of foreign scientists to the US to socialize new S&T ideas or findings with the Naval Research Enterprise

Collaborative Science Program (CSP)
• Support foreign or international workshops and conferences of Naval interest

Research Grants
• Support connection of innovative, int’l S&T to ONR programs and US PIs

Global-X Challenge
• Seek potentially game-changing multidisciplinary technology concepts from int’l research teams

Small early investments can lead to significant results
Success Story: Bio-manufacturing Sustainable Distributed Jet Fuel Using Bacteria

Exploitation of biological materials has the potential to eliminate waste streams, secure sovereign production capabilities, improve performance, and deliver enhanced lethality to the warfighter.

UK government Leadership Council adopts report as part of Nat'l investment strategy

Affordable, Sustainable, Secure and Distributed Biomanufacture in Halomonas with Optogenetic Control

Co-funded by ONR Code 341

SERDP/ESTCP funds joint 6.2 grant on converting seawater to energetic (CL-20) precursors

Search & Liaison Visits

Utilizing Science Tools for Novel Research
Science Director
Requirements/Attributes

**Required**
- Advanced Degree in a technical field
- Demonstrated technical depth and breadth
- Experience conducting & managing fundamental research
- Strong communication & team building skills
- US citizen
- Ability to obtain Secret clearance
- Ability to live overseas & travel 50%

**Preferred**
- PhD in relevant field
- Experience with ONR/NRE
- Foreign language capability
- International S&T experience
- Experience evaluating basic research proposals
- Experience managing research grants
- Ability to network/interface in a tech broker role

**Hiring Mechanisms:** ONR Global Core Position (when available); government employee detail to ONR Global (for current government employees) or as a university employee through an IPA Agreement. Look for a USAJOBS Flyer in Oct/Nov.
Science Advisors

**Articulate** Fleet Force S&T needs and requirements to ONR, NRL, NR&DE

**Communicate** Command issues to CNR, ONR leadership and Program Officers

**Serve** as ONR on site rep during Fleet Force exercises and demonstrations

**Lead** S&T planning & experimentation processes to focus on meeting critical needs, then assist in transition of key technologies to the Warfighter

**Aligning Naval Research Enterprise to the Fleet/Force!**
# Science Advisor Requirements/Attributes

## Required
- Have a working knowledge of ONR, NRE, and DoD Acquisition Process
- Provide an endorsement letter from your “Home” command
- TS SCI clearance eligible
- Strong communication skills
- Self-starter, highly motivated, agent of change and positive attitude
- Customize your resume to address unique attributes

## Preferred
- Experience interacting/briefing Flag/General Officers and SES
- Over 10 years of practical experience working on Fleet Force Systems and Processes
- Maintain a sense of humor under high stress situations
- TS SCI clearance
- Contact existing Science Advisors

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**Hiring Mechanisms:** Government employee detail to ONR Global (for current government employees) or as a university employee through an IPA Agreement. Look for a USAJOBS Announcement in Oct/Nov.
• Develop and manage an annual portfolio of experimentation & analysis efforts to rapidly address emerging and unmet operational needs

• Maintain awareness of E&A opportunities and facilitate NRE engagement and participation

• Maintain awareness of ALL NRE experimentation

• Facilitate and promote NRE experimentation in alignment with strategic goals of CNO & CMC

• Influence and guide Naval Research and Development Enterprise (NR&DE) experimentation to support NRE


*Providing decision-quality data to Naval Research Enterprise leadership to support recommendations for technology investments, further development, transition or divestiture.*
E&A Deputy Requirements

**Required**
- Experience participating in fleet/force experimentation
- Strong technical credentials with multi-disciplinary interest
- Interest in networking/interfacing with warfighters & tech developers
- Self-starter, highly motivated, positive attitude
- Provide an endorsement letter from your “home” command

**Preferred**
- Familiarity with NR&DE
- USN + USMC experience
- Strong outreach & communication skills at all levels, military and civilian
- Ability to travel regularly

**Hiring Mechanisms:**
Government employee detail to ONR Global (for current government employees) or as a university employee through an IPA Agreement. Not filling any vacancies in FY22
Technology Development based on requests received directly from Sailors on the deckplate and Marines in the field

Links warfighters with the Naval Research & Development Establishment (NR&DE) for prototype development

Pulls S&T ideas from the Fleet and Force for development, rather than pushing technology

Rapidly develops and delivers a prototype and demonstrates the solution in an operationally relevant environment

TS Wiki – https://techsolutions.navylmili/wiki/  
https://www.youtube.com/user/usnavyresearch
TechSolutions Deputy Requirements/Attributes

**Required**
- Strong technical credentials with multi-disciplinary interest
- Creative thinking and imagination for finding solutions
- Interest in networking/interfacing with warfighters & tech developers
- Self-starter, highly motivated, positive attitude
- Provide an endorsement letter from your “home” command

**Preferred**
- Familiarity with NR&DE
- USN + USMC project experience
- Strong outreach & communication skills
- Ability to travel regularly

**Hiring Mechanisms:** Government employee detail to ONR Global (for current government employees) or as a university employee through an IPA Agreement. Look for a USAJOBS Announcement in Oct/Nov.
Develop and support Mil-Mil bilateral and multilateral relationships and engagements

Engage with US Program Officers and foreign defense organizations to identify & develop collaborative projects that solve Naval capability gaps

Interface throughout ONR & NRL; NR&DE

Gain exposure across the S&T portfolio

Connect across USG (OPNAV, NIPO, AF/Army/DARPA, OSD, DOS, OSTP, Interagency, etc.)
International Engagement Office
Country Director
Requirements/Attributes

**Required**
- Strong technical credentials
- Interest in technical broker role
- Ability to network/interface
- Strong Communication Skills
- Self- Starter, Highly Motivated, High Energy, Positive Attitude
- Provide an Endorsement Letter from your “Home” Command
- Must be eligible for TS SCI Clearance

**Preferred**
- Experience Interacting and Briefing Flag/General Officers and SES
- Experience with ONR/NRE
- International S&T experience

**Hiring Mechanisms:** Government employee detail to ONR Global (for current government employees) or as a university employee through an IPA Agreement. Look for a USAJOBS Announcement in Oct/Nov.
Foreign Comparative Testing (FCT)

Mission: Find, assess and field world-class technologies to enhance military capabilities and provide long-term value

• Technologies should present:
  − Significant cost savings resulting in positive ROI
  − Significant schedule savings resulting in earlier fielded capability
  − Significant performance enhancements
  − Novel approaches to need/capability requirements

• Connects foreign technologies to U.S. DoD development and acquisition programs

• Strengthens alliances by sourcing world-class solutions to shared defense problems through “2-way street” of defense procurement

• Enables affordability (e.g., RDT&E, procurement and O&S)

• Harvests global innovation

• Office of the Secretary of Defense (OSD) selects and funds projects; military services & USSOCOM execute projects
  − Office of Naval Research – Managing and oversight of DoN FCT program for Navy and Marine Corps
Mission Support

**Serve** To provide a full range of corporate business and logistics functions to enable the Command's S&T mission. Mission Support focuses on customer requirements; develops and delivers timely, quality and cost effective business solutions; continually improves business processes, practices and communications; ensures compliance with statutory and regulatory requirements; and recruits, develops and retains a highly professional workforce.

**Engage** with US Program Officers and foreign defense entities

**Interface** throughout ONR, NRL & NR&DE

**Gain** exposure across the S&T portfolio

**Connect** across the U.S. Government (OPNAV, NIPO, AF, Army, DARPA, OSD, DOS, OSTP, etc.)
Potential Vacancies
Summer 2022*

Science Advisor:
- INDOPACOM (Oahu, HI)
- COMTHIRDFLT (San Diego, CA)
- NAVAIRFOR (San Diego, CA)
- NECC (Virginia Beach, VA)
- NAVSPECWARCOM (San Diego, CA)
- NAVIFOR (Suffolk, VA)
- I MEF (Camp Pendleton, CA)
- C4F (Mayport, FL)

Science Director:
- Potential locations: Tokyo (1), London (1), Prague (1), Singapore (1)
- Technical expertise in materials and manufacturing, hypersonics, directed energy, hydrodynamics/fluid mechanics, power & energy, intelligent autonomous systems, photonics/optics

Mission Support:
- None

TechSolutions:
- Deputy – Nov 2022

Experimentation & Analysis:
- None

International Engagement Office:
- Country Director (1)

* Tentative projection of positions
Potential Vacancies
Summer 2023*

Science Advisor:
• USNAVCENT/C5F (Bahrain)
• NWDC (Norfolk, VA)
• NAVSUBFOR (Norfolk, VA)

Science Director:
• Potential locations: London (2), Singapore (1), Tokyo (2)

Mission Support:
• Civilian: IT Specialist (London)
• Civilian: Net Ops (London)
• Civilian: IT Manager (Tokyo)

TechSolutions:
• None

Experimentation & Analysis:
• None

International Engagement Office:
• Country Director (one position)

* Tentative projection of positions
Points of Contact

Ms. Jessica Hill  
Personnel Support Officer  
jessica.e.hill@navy.mil  
Work Cell: 703-254-3122

Dr. Rhett Jeffries  
Technical Director, ONR Global  
Rhett.W.Jeffries.civ@mail.mil

Dr. Eric Glovsen  
Director, Int. Science Program  
eric.gulovsen@navy.mil

Ms. Shala Malone  
Director, International Liaison Office  
Shala.Malone@navy.mil

Ms. Joanne Pilcher  
Director, Science Advisor Program  
joanne.d.pilcher.civ@us.navy.mil

Mr. Jason Payne  
Director, TechSolutions  
jason.payne@navy.mil

Mr. Troy Hendricks  
Director, Experimentation and Analysis  
troy.t.hendricks.civ@us.navy.mil

Mr. Art Webb  
Director, Foreign Comparative Testing  
arthur.c.webb@navy.mil

If you have any questions, please email the Talent Manager at onrg.talentmanager@mail.mil

ONR Global Accomplishments

**Compact command operating at global level**
- 31 Core billets: 26 civilian and 5 military
- Personnel deployed OCONUS or to the Fleet: 70%
- Technical Staff average time onboard: 2.2 years

ONR Global is partnered with 18 of the top 23 international universities
Awarded 187 grants in 39 countries (FY20)
Awarded $1.1M in Global-X Challenge
151 Global Technical Awareness Visits

63 of the top 100 universities and 80% of world’s researchers are outside of the U.S.

Partnerships include research grants and collaborative science projects FY17-19. Statistic excludes China and Hong Kong.

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**Awards 70% of annual ONR International grants**

**Manages 18 formal international bilateral agreements**

**Transitions ~10 prototypes to the fleet/force per year**

**Conducts ~15 Fleet Experiments to inform innovation decisions**

**Leads $69.2M FCT investment in 23 capabilities with $2.5B ROI**

**Deploys 23 Science Advisors to senior Fleet and Force Commanders**

***Accomplished with an investment of only 1.43% of ONR budget***

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The value of ONR Global:
International research and partnerships
Connecting S&T to the fleet and force
Global technical awareness

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Back-Up Slides
Strategic S&T Guidance

- Defend and nurture the underlying sources of American strength, including our people, our economy, our national defense, and our democracy at home;
- Promote a favorable distribution of power to deter and prevent adversaries from directly threatening the United States and our allies, inhibiting access to the global commons, or dominating key regions; and
- Lead and sustain a stable and open international system, underwritten by strong democratic alliances, partnerships, multilateral institutions, and rules.

USD(R&E) Modernization Priorities
- Advanced Autonomy
- Artificial Intelligence
- Biotechnology
- Cybersecurity
- Directed Energy
- Fully Networked C3
- Hypersonics
- Microelectronics
- Quantum Science
- Space Offense & Defense
- 5G

Advantage at Sea
Prevailing with Integrated All-Domain Naval Power

Naval Service Investments
- Developing our Warfighters
- Nuclear Deterrence
- Sea Control and Power Projection
  - Surface and Air Warfare
  - Undersea Warfare
  - Power Projection and Strike
  - Air and Missile Defense
  - Sustainment
  - Strategic Sealift
- Building Capable Warfighting Capacity
- Information and Decision Advantage
- Prevailing in Day-to-Day Competition
- Operational Readiness

“Rapid changes in technology will shape every aspect of our lives and our national interests.”
Naval Research and Development Framework: Align, Allocate, Accelerate

Five Framework Priorities that are Strategic and Warfighter-Focused...

...Translates to Five Technology-Focused Integrated Research Portfolios

1. Augmented Warfighter
2. Integrated & Distributed Forces
3. Operational Endurance
4. Scalable Lethality
5. Sensing & Sense-Making

Information, Cyber & Spectrum Superiority
Ocean Battlespace and Expeditionary Access
Mission Capable, Persistent & Survivable Sea Platforms
Warfighter Performance
Aviation, Force Projection & Integrated Defense

NRE Framework Addendum

Naval Research Enterprise Addendum to the NAVAL RESEARCH AND DEVELOPMENT FRAMEWORK

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ONR Global Vision

To be the partner of choice for science and technology leaders

ONR Global Mission

To serve as the enduring Navy and Marine Corps global presence in technical and operational communities, investing in trusted partnerships to discover and connect science and technology leaders for sustained maritime security

To obtain, coordinate, and make available world-wide scientific information
Trusted Partnerships

**International Science**
24 Science Directors deployed in seven sites worldwide to find the best science and bring it back to the Naval Research and Development Enterprise

**Science Advisors**
23 Science Advisors embedded in Navy and Marine Corps staffs to connect the warfighter and the Naval Research and Development Enterprise

**International Engagement**
Developing and maintaining US Navy military to military science & technology relationships with international partners

ACADEMIA AND LABS
DEPT OF NAVY FLEET & FORCE
S&T MILITARY TO MILITARY
**Experimentation & Analysis**

Opportunity to explore new technology capability limitations, develop operational concept possibilities and analyze science and technology.

**FLEET/FORCE**

**TechSolutions**

Rapid-response science and technology program focused on producing prototype solutions to problems submitted by Sailors and Marines.

**SAILORS AND MARINES**

**Foreign Comparative Test**

Identification and testing of foreign capabilities and technologies to provide enhanced warfighter lethality, effectiveness, readiness and protection.

**INTERNATIONAL DEFENSE**

**Trusted Partnerships**

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