



Office of Naval Research Global 2018 Recruiting Brief

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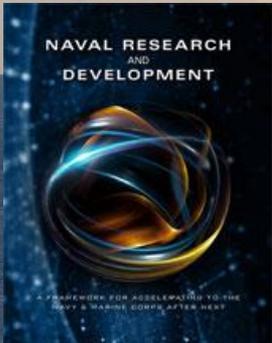


The Office of Naval Research

The S&T Provider for the Navy and Marine Corps



- 4,000+ People
- 23 Locations
- \$2.1B / year
- >1,000 Partners



Discover



Develop



Deliver



Technological Advantage



ONR is part of the NR&DE, Providing Full-Spectrum RDT&E

RDT&E Budget (6.1-6.7)

S&T Budget (6.1-6.3)

<p>6.1 Basic Research</p>	<p>6.2 Applied Research</p>	<p>6.3 Advanced Technology Development</p>	<p>6.4 Adv. Comp. Development & Prototypes</p>	<p>6.5 System Development & Demonstration</p>	<p>6.6 RDT&E Management Support</p>	<p>6.7 Operational System Development</p>
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Naval R&D Establishment

(ONR, SYSCOMs and their Warfare Centers, PEOs)

Office of Naval Research





ONR Global Mission

To serve as the preeminent external network facilitator for ONR and the greater NRE by ensuring quality/relevant connections between the international S&T community, naval fleet/force, and NRE regarding both current execution and developing long-range strategic efforts. To remain always focused on the current and future needs of our Sailors, Marines, naval service and international partners.



ONR Global Objectives

Discover the Best
Science and
Technology Worldwide

- Identify and support innovative research that aligns with Naval needs
- Leverage complimentary research investments
- Link S&T push (disruptors) and pull (technology gaps) to the fleet



Maintain Global
Technical Awareness

- Inform allocation of resources to prevent technological surprise
- Scout international technology for the Naval Research Enterprise
- Identify emerging high impact global technology trends



Science & Technology
Partnerships and
Collaborations

- Facilitate collaboration to accelerate S&T advancement
- Foster mutually beneficial S&T research
- Build capability and interoperability with international S&T partners



ONR Global Technical Functions

Science Advisors

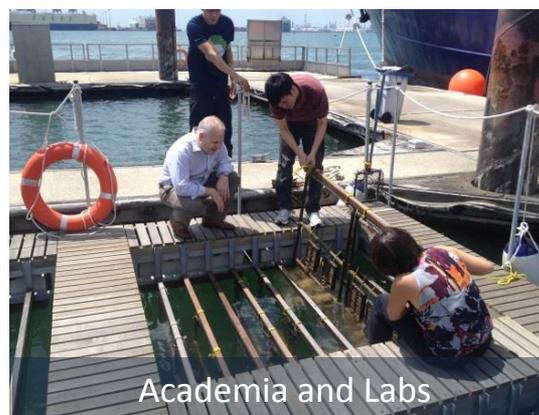
Embedded in Navy and Marine Corps staffs to connect the warfighter and the Naval Research & Development Establishment

Science Directors

Finding and connecting the best science back to the Naval Research Enterprise from six offices worldwide

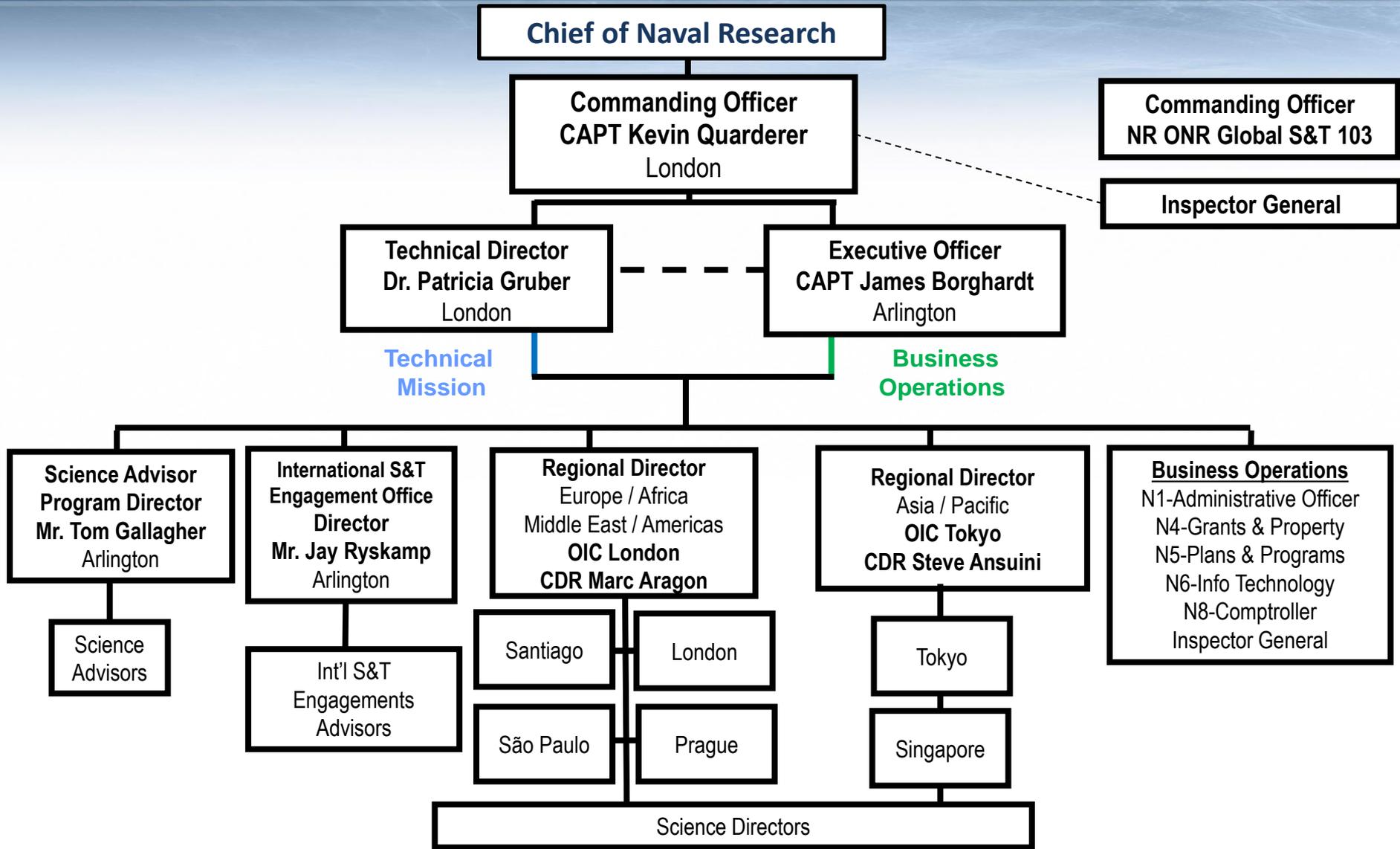
Int'l S&T Engagement Advisors

Developing and maintaining US Navy military to military science & technology relationships





Organization





ONR Global Locations

Washington, D.C. Region / ONR HQ

ONR Global Arlington

International S&T Engagement Advisors

C10F ★★ ★★

N81 ★★

ONR Global Headquarters London

Commanding Officer

Technical Director

ONR Global Prague

ONR Global Tokyo

Yokosuka

C7F ★★ ★★

Okinawa

III MEF ★★ ★★

Bahrain

C5F ★★ ★★

India

ONR Global Singapore

ONR Global São Paulo

Norfolk

FLTFOR ★★ ★★ ★★

SUBFOR ★★ ★★ ★★

MARFORCOM ★★ ★★ ★★

NAVIFOR ★★ ★★ ★★

SPECWAR ★★ ★★

NECC ★

NWDC ★

Mayport

C4F ★★ ★★

Camp LeJeune

II MEF ★★ ★★

San Diego

C3F ★★ ★★ ★★

AIRFOR ★★ ★★ ★★

SURFOR ★★ ★★ ★★

I MEF ★★ ★★

UWDC ★

NSMWDC ★

Hawaii

PACOM ★★ ★★ ★★

PACFLT ★★ ★★ ★★

MARFORPAC ★★ ★★

ONR Global Santiago

○ Science Advisors

★ Joint Command

★ Navy Command

★ Marine Corps Command

Science Directors

- London
- Prague
- Tokyo
- Santiago
- Singapore
- Sao Paulo



Why You Should Consider an ONR Global Assignment

- **Enhance** your Fleet/Force Awareness
- **Be an integral part** of Flag/General Officer-level decision making
- **Experience** unique professional development and travel opportunities
- **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**





Science Advisors Strive To

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



ONR's S&T Ambassadors to the Fleet!



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 SA 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

Position announcements are posted on ONR Global external website <http://www.onr.navy.mil/Science-Technology/ONR-Global/employment-global.aspx>



Sample SA Project

Towed Airborne Lift of Naval Systems (TALONS)

Program Description

The Technology: TALONS is a system developed to lift and tow a variety of payloads 1000+ feet in the air behind ships, underneath flexible parafoil wings, as an artificial mast in the sky.

Objective: Conduct several experiments to determine the suitability of TALONS to current naval vessels and operations, to answer key Fleet-implementation related questions, and introduce TALONS capabilities into the Fleet.

Key Metrics: Wind envelopes, launch and recovery times, officer of the deck and ship impacts, robustness of power and communication options, compatibility with emergency procedures

S&T to Demonstrate:

- Payload effectiveness from TALONS system hardware and flight environment
- Minimal manning and operator training for launch, flight, and recovery
- Maximum and minimum wind speeds when towing TALONS system
- Minimum launch and recovery times
- Off-axis launch, flight, and recovery
- Rugged and reliable power and signal tether operations
- Emergency procedures

Major goals/Schedule:

- Ship wake field testing – December 2015
- 26ft boat testing – January 2016
- 60ft boat testing – June 2016
- 4th Fleet testing (Spring)
- 6th Fleet testing (Summer)
- Completion – October 2016



Value to Fleet:

Leveraging previous DARPA funding and development work, C6F and C4F Science Advisors requested ONR Experimentation funds to experiment with TALONS based on their theater requirements.

TALONS lifts payloads from any ship to altitudes by towing them under a parafoil wing. Possible payloads include EO/IR systems, radar, communications relay / RF antennas, and more. TALONS increases the situational awareness of large or small ships. Simple battery-operated configurations are available as well as long-endurance systems with power and signal embedded in the tow tether.

Partners: 4th and 6th Fleet, NSWC Carderock, PEO-IWS, NAVSEA, NAVAIR, DARPA

Transition Sponsor: USFF, 4th and 6th Fleet



Unmanned Warrior 2016

Science Advisors and the ONRG Reserve Component led the U.S. effort for Exercise UNMANNED WARRIOR 16 which was conducted in conjunction with the Royal Navy's Exercise JOINT WARRIOR 162 to:

- Experiment with the tactical employment of unmanned and autonomous systems in maritime and littoral environments
- Mature credible capability choices for mainstream utilization of UxS
- Demonstrate, and gather evidence as to how well UxS can deliver a range of capabilities.

The event consisted of 50 Unmanned systems, 6500 warfighters, 31 ships and 67 aircraft from across 18 NATO nations and it allowed the US to:

- ACCELERATE technical and operational learning about autonomy and intelligent systems to advance naval warfighting advantage.
- INNOVATE with other world-class experts and allied navies expanded the horizons of autonomous systems.
- COLLABORATE with experts from allied navies, international partners and diverse S&T leaders to accelerate UxV development learning while enhancing the Fleet training experience





Science Directors Strive To

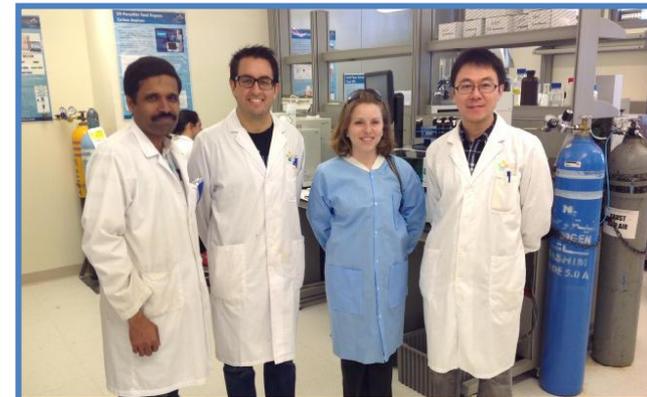
Act as a tech broker linking ONR, NRL, and the NRE with International S&T

Identify disruptive S&T in order to avoid Naval technical surprise

Gain enhanced awareness of S&T through direct, regular contact with international colleagues

Initiate and manage grants to provide tangible links between foreign scientists and their US Naval counterparts

Provide ONR forward presence with global innovators and technologists



ONR's Global S&T Scouts!



Science Director Requirements/Attributes

Required

- Masters Degree in technical field
- In-depth experience in performing basic or applied research
- Ability to network/interface in a tech broker role
- US citizenship
- Ability to travel extensively

Preferred

- PhD in relevant field
- Experience with ONR/NRE
- Foreign language capability
- International S&T experience

- Position announcements are posted on ONR Global external website
<http://www.onr.navy.mil/Science-Technology/ONR-Global/employment-global.aspx>

Sample Science Director Grant

Project Southern Star with NRL

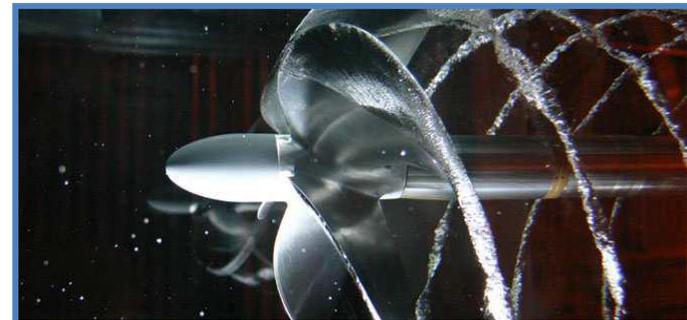
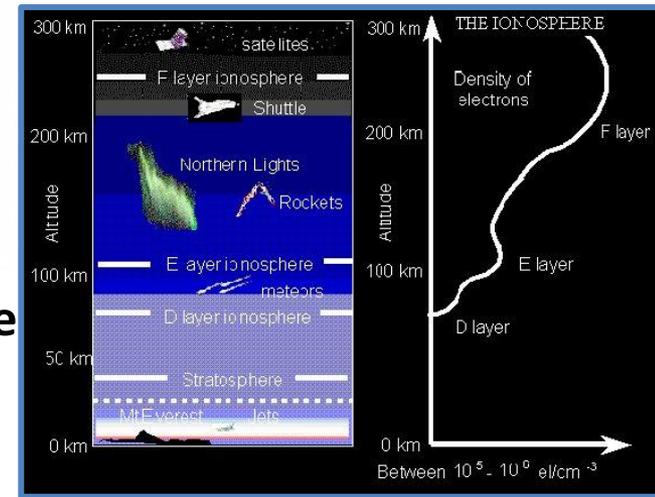
- Working with NRL researchers to establish Ionospheric and thermospheric weather sensors at 2 Universities in Chile
- Ionospheric and thermospheric weather data
- Costs for installation and maintenance would be paid for by NRL
- Data would be shared with local universities for future NICOP project



Measurements and Computations of the Temperature Variations during Collapse of Cavitation Bubbles

Lille Mécanique Laboratoire, France

- Novel method for measuring fine-scale temperature fields inside a cavitation bubble using tiny cold-wire thermometer and IR radiation.
- Enables modeling of erosion due to bubble collapse





International S&T Engagement Advisors Strive To

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

Serve as the action officer to coordinate & manage government to government S&T partnerships

Connect across USG (OPNAV, NIPO, AF/Army/DARPA, OSD, DOS, OSTP, etc)



ONR's Government to Government Partnership Builders!



International S&T Engagement Advisor 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

Position announcements are posted on ONR Global external website <http://www.onr.navy.mil/Science-Technology/ONR-Global/employment-global.aspx>



Potential Vacancies Summer 2018*

Science Advisor:

- USFFC (Norfolk, VA)
- II MEF (Camp Lejeune, NC)
- III MEF (Okinawa, JP)
- NAVSURFOR (San Diego, CA)
- COMPACFLT (Hawaii)
- NWDC (Norfolk, VA)
- MARFORCOM (Norfolk, VA)
- FLCYBERCOM/C10F (Fort Mead, MD)



Science Director:

- Quantum Science (London)
- Interdisciplinary Science; Middle East (London)
- Interdisciplinary Science; S. America (Santiago)
- Interdisciplinary Science; S. America (São Paulo)
- Warfighter Supremacy (Tokyo)
- Information, Cyber & Spectrum Superiority (London)

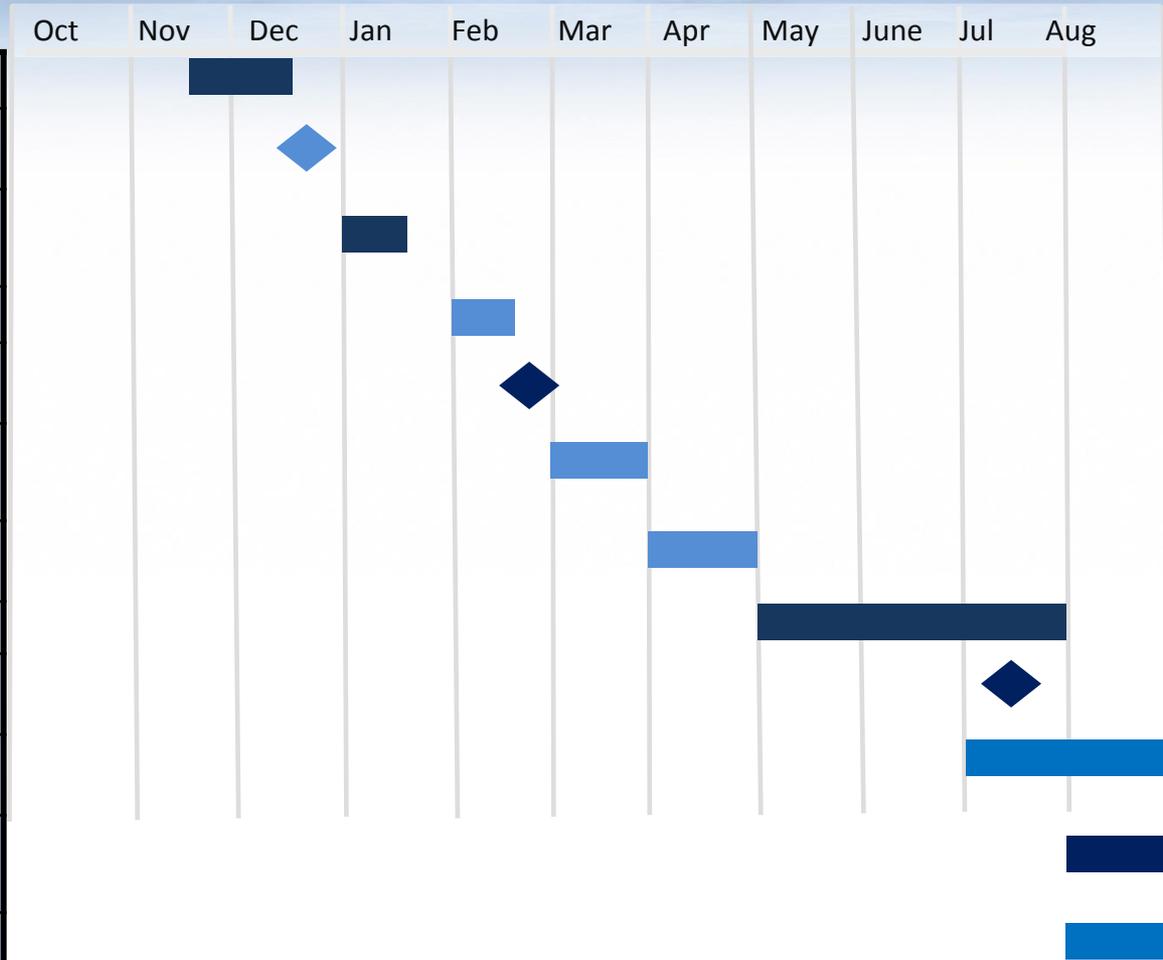
International S&T Engagement Office:

- (2) International S&T Engagement Advisors - (Arlington, VA)

* Tentative projection of positions



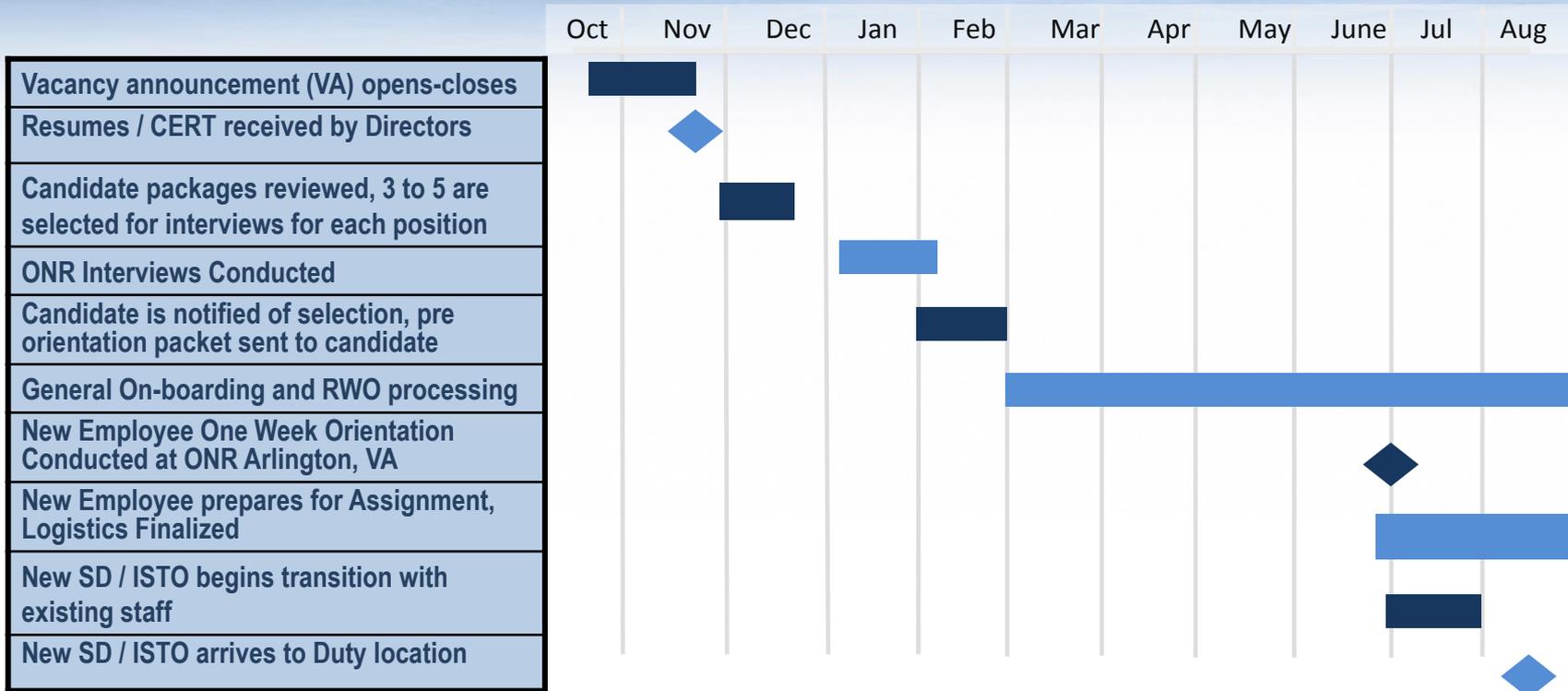
FY 18 SA Selection Schedule



These dates projected as of 22 August 2017



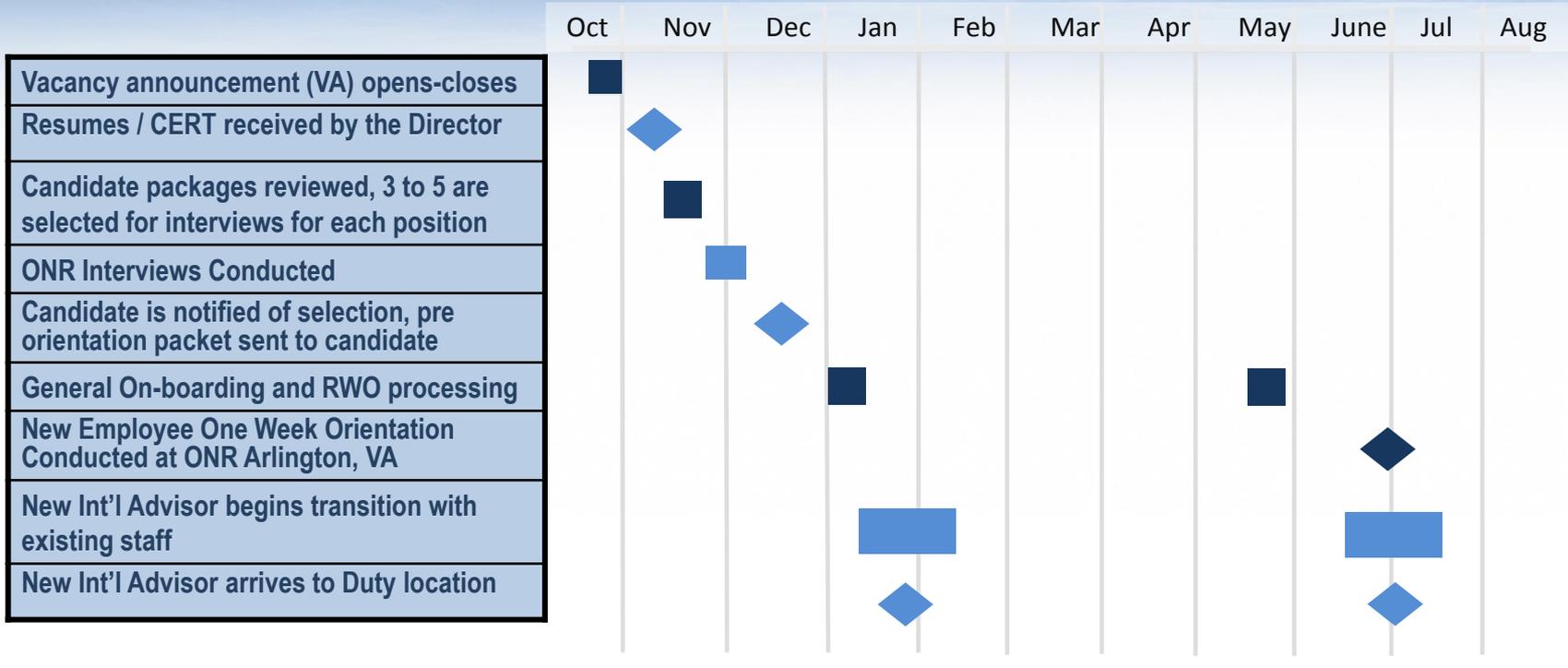
FY18 SD Selection Schedule



These dates projected as of August 2017



FY18 ISTEEO Selection Schedule



These dates projected as of September 2017



Potential Vacancies Summer 2019*

Science Advisor:

- I MEF (Camp Pendleton, CA)
- NSMWDC (San Diego, CA)
- NECC (Little Creek, VA)
- C3F (San Diego, CA)
- NAVAIRFOR (San Diego, CA)
- NAVIFOR (Suffolk, VA)

Science Director:

- Air Platforms (Hyderabad)
- Sea Platforms (London)
- Undersea Battlespace and Maritime Domain Access (London)
- Sea Platforms (Tokyo)
- Amphibious Expeditionary Maneuver (Tokyo)
- Information, Cyber and Spectrum Superiority (Tokyo)



* Tentative projection of positions



Summary

- Globally dispersed, agile workforce
- Focused on facilitating NR&DE access to international S&T community
- Connecting U.S. S&T networks to our international S&T partners.



Points of Contact



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Backups



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