

**FY19 NRP Research - FUNDED** (pending approved research proposal, PI brief and PI annual training)

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List sorted by IREF ID.

Topic IREF ID	Title	Board Advocate   Topic Sponsor Org	Research PI	Notes	
NPS-19-M020-A	Change Detection of Marine Environments Using Machine Learning	HQMC I	Mara Orescanin	Requirement	Funded
NPS-19-M093-A	Cost and Operational Evaluations of Centralized vs. Distributed Class IX Inventories	HQMC I&L	Michael Atkinson	Requirement	Funded
NPS-19-M103-A	The Running Estimate (RE) for the MEF Command Element	II MEF	Arkady Godin	Requirement	<i>Funded*</i>
NPS-19-M103-B	The Running Estimate (RE) for the MEF Command Element	II MEF	<i>Brian Wood</i>	Requirement	Funded
NPS-19-M107-A	MARFORPAC-Pacific Partner Wargaming	MARFORPAC	Jeffrey Appleget	Requirement	<i>Funded*</i>
NPS-19-M117-A	Marine Corps Warfighting Laboratory (MCWL) Expeditionary Advance Base Operations (EABO) Wargaming	MCWL	Jeffrey Appleget	Requirement	Funded
NPS-19-M159-A	Deep Analytics for MarineNet with Personalized Learning - Using the Pilot Data (Continuation)	MCCDC   CDET	<i>Tony Kendall</i>	Requirement	<i>Funded*</i>
NPS-19-M185-A	Optimized Network Emulation of Signals Intelligence (SIGINT) and Tactical Cyberspace Environments for MAGTF Training	II MEF	Imre Balogh	Requirement	<i>Funded*</i>
NPS-19-M198-A	Retention Rates influenced by Marine Corps Pay Incentives (Continuation)	HQMC M&RA	Marigee Bacolod	Requirement	<i>Funded*</i>
NPS-19-M238-A	Modeling and Simulation Tool to Enhance and Explore the ROE Design Space for NLW	HQMC PP&O	Steven Hall	Requirement	Funded
NPS-19-M244-B	COTS Solution for Adaptive Communications Paths Using Tactical Handhelds	MCSC   MCTSSA	Gurminder Singh	Requirement	Funded
NPS-19-M249-A	Computational Experimentation to Simplify and Optimize a Large-Scale Simulation of Resourcing Marine Corps Readiness	HQMC P&R	Thomas Lucas	Requirement	<i>Funded*</i>
NPS-19-M268-A	Creating and Maintaining a Specialized Occupational Force: Marine Information Environment Operations	DC, I	Kathryn Aten	Requirement	Funded
NPS-19-M283-A	Impacts Of Hot Isostatic Pressing 3D Printed Parts	HQMC I&L   MCLC	Claudia Luhrs	Requirement	Funded
NPS-19-M285-A	Using Virtual Environments to assess Human-Robot Teams during MAGTF Operations	MCWL	Donald Brutzman	Requirement	Funded

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NPS-19-M286-A	Designing and Provisioning for a Consistent C2 Approach for Marine-Machine Teaming	MCWL	Scot Miller	Requirement	Funded
NPS-19-N001-A	Maritime Strategy and Naval Innovation (Continuation)	N3/N5	James Russell	Requirement	Funded
NPS-19-N003-A	Counter Directed Energy Warfare (CDEW)	ASN RDA / ONR	Bonnie Johnson	Requirement	Funded
NPS-19-N017-A	Enhancing Endurance for High-Altitude UxS	N2/N6	Isaac Ross	Requirement	Funded
NPS-19-N019-B	Advanced Concepts and Applications for Predictive Analytics in the Maritime Domain	N2/N6	Bonnie Johnson	Requirement	Funded
NPS-19-N036-A	CYBER/RF MILDEC in Naval Operations	N2/N6	Randy Maule	Requirement	<i>Funded*</i>
NPS-19-N038-A	F-35 MADL Data Integration for the Surface Force	USFF / CNSF	Victor R Garza	Requirement	Funded
NPS-19-N039-A	Cyber System Assurance through Improved Network Anomaly Modeling and Detection	N8	Chad Bollmann	Requirement	Funded
NPS-19-N051-A	Improving Tactical Environmental Support in Data Denied Areas: Applications of Machine Learning (ML)	N2/N6	Wendell Nuss	Requirement	Funded
NPS-19-N058-A	The Future of Unmanned Platforms, Automation, Big Data, and Portable Power	N9   NAVSPECWARCOM	David Trask	Requirement	Funded
NPS-19-N065-A	Expeditionary Mine Countermeasures (ExMCM) C4I Requirements (Continuation)	USFF / NECC	Arijit Das	Requirement	Funded
NPS-19-N067-A	NSWC Lessons Learned Program (Continuation)	N9   NAVSPECWARCOM	Shelley Gallup	Requirement	Funded
NPS-19-N068-A	Managing Materiel Distribution in an Uncertain Environment	N4	Michael Atkinson	Requirement	Funded
NPS-19-N068-B	Leverage Optimization Artificial Intelligence (AI) to Optimize Global Material Distribution	N4	Ying Zhao	Requirement	Funded
NPS-19-N074-A	Effectiveness of Training Systems that Employ Virtual Reality, Augmented Reality, and Touchscreen Displays	USFF   CNSF	Amela Sadagic	Requirement	Funded
NPS-19-N079-A	Hydrocode Analysis of Seabed Effector Initiation Options	USFF   COMSUBPAC	Jarema Didoszak	Requirement	Funded
NPS-19-N080-A	MEMS Acoustic Sensor for UAV Detection and Localization	USFF / COMSUBPAC	Fabio Alves	Requirement	Funded
NPS-19-N082-B	Officer of the Deck Competency Data Collection and Analysis	USFF   CNSF	Jesse Cunha	Requirement	Funded

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NPS-19-N085-A	Modeling and Simulation for Lifetime Predictions	ASN RDA   NSWC	Bryan O'Halloran	Requirement	Funded
NPS-19-N091-A	Modeling Large-Scale Warfighter Cognitive Reasoning and Decision Making Using Machine Learning, Artificial Intelligence and Game Theory (Continuation)	N8	Ying Zhao	Requirement	Funded
NPS-19-N106-A	Robust Modeling & Simulation to Support Medium Displacement Unmanned Surface Vehicle (MDUSV) Mission Set Development	N9	Eugene Paulo	Requirement	Funded
NPS-19-N110-A	Modeling and Analysis of Total Ownership Cost for Surface Ship EO/IR Systems	N9	Johnathan Mun	Requirement	Funded
NPS-19-N112-A	Manned-Unmanned Teaming in Distributed Maritime Operations	N9	Mark Nissen	Requirement	Funded
NPS-19-N118-A	Unmanned Surface Logistics Concept of Support	N4	Doug MacKinnon	Requirement	Funded
NPS-19-N119-A	Sociotechnical System Evaluation of Naval Aviation Policies, Guidance, Training Events, and Training Systems	N9	Karen Holness	Requirement	Funded
NPS-19-N120-A	Supply Chain Vulnerability Identification Using Big Data Techniques	N4	Doug MacKinnon	Requirement	Funded
NPS-19-N125-B	Operational Internal Wave Prediction Validation and Impacts	USFF   COMSUBPAC	Davis Reeder	Requirement	Funded
NPS-19-N134-A	Implementing the DoN 30-Year R&D Plan: Creating and Sustaining a Culture That Values Learning, Strategic Agility, Collaboration and Innovation	ASN RDA	Sue Higgins	Requirement	Funded
NPS-19-N143-A	Aviation Depot Maintenance Throughput Optimization	N8	<i>Javier Salmeron</i>	Requirement	Funded
NPS-19-N155-A	Hydrodynamically-based Detection of the Surface and Subsurface Wakes	N2/N6	Timour Radko	Requirement	Funded
NPS-19-N156-A	Surface Warfare Proficiency Knowledge Management Architecture	USFF   CNSF	Mark Nissen	Requirement	Funded
NPS-19-N157-A	Leveraging AI in Support of Decision Superiority – Enabling AI, a System of Systems Approach	N2/N6	Bonnie Johnson	Requirement	Funded
NPS-19-N163-A	Big Data Meet ML and AI for Decision Superiority at the Tactical Edge – Algorithm Design, Demonstrate and Concept Model	N2/N6	<i>Dan Boger</i>	Requirement	<i>Funded*</i>

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NPS-19-N168-A	Analysis of a Lightly Manned Autonomous Combat Capability (LMAAC) Concept	N9	Shelley Gallup	Requirement	Funded
NPS-19-N169-A	Organizational Assessment of a Future Surface Force Development Squadron (SURFDEVRON)	N9	Shelley Gallup	Requirement	Funded
NPS-19-N176-A	AoA Paradigm for Early Visibility of Logistics and Cost in the Acquisition Process	N4	Moshe Kress	Requirement	Funded
NPS-19-N180-A	Effects of Environmental Factors on Additive Manufactured Materials	N4	Claudia Luhrs	Requirement	Funded
NPS-19-N181-A	Security Gaps of Husbanding Service Providers (HSPS) and Viability of HSPS in Major Theater Conflict	N4	Geraldo Ferrer	Requirement	Funded
NPS-19-N190-A	Cost-Benefit Analysis of Navy Station Search and Rescue (SAR)	N9	Simona Tick	Requirement	Funded
NPS-19-N191-A	Joint Fires in Support of Distributed Maritime Operations	N2/N6	Eugene Paulo	Requirement	Funded
NPS-19-N191-C	Joint Fires in Support Distributed Maritime Operations	N2/N6	Scot Miller	Requirement	Funded
NPS-19-N212-A	Intuitive System Training	N1   NETC	Perry McDowell	Requirement	Funded
NPS-19-N216-A	Identifying Traits that May Lead to Unethical Decision Making and Destructive Behavior in Navy Recruiters	N1   NETC	Douglas Van Bossuyt	Requirement	Funded
NPS-19-N220-A	Low Temperature, Low Cost, Precision Metal Additive Manufacturing (M-AM)	N4	Jonathan Phillips	Requirement	Funded
NPS-19-N246-A	Social Network Analysis and High Velocity Learning	N1	Gail Thomas	Requirement	Funded
NPS-19-N247-A	Investigation of Railgun Bore Wear after Prolonged Exposure to a Marine Environment	ASN RDA   ONR	Andres Larraza	Requirement	Funded
NPS-19-N257-A	In-stride Optimal Motion Planning/re-planning for MCM Missions using Optimization	N8	Isaac Kaminer	Requirement	Funded
NPS-19-N258-A	Assessing the Implications of Changes in Russia's Strategic Posture	N3/N5	Mikhail Tsyarkin	Requirement	Funded
NPS-19-N260-A	Implications of Russian Strategic Changes on China	N3/N5	Michael Glosny	Requirement	Funded
NPS-19-N290-A	Russian Federation A2AD posture	N3/N5	Donald Abenheim	Requirement	Funded

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NPS-19-N304-A	Enhance Warfighter Performance by Fostering Organizational Agility & Innovation in the Naval Research and Development Enterprise	ASN RDA	Sue Higgins	Requirement	Funded
NPS-19-N305-A	Chinese Security Cooperation with Southeast Asian Countries: Implications for U.S. Naval Operations	N3/N5	Michael Glosny	Requirement	Funded
NPS-19-N322-A	Enlisted Detailing Market Place Analysis and Pilot	N1	William Gates	Requirement	Funded
NPS-19-N324-A	Increasing Sensor Efficiency for Small Satellite Maritime Domain Awareness	N2/N6	Mark Karpenko	Requirement	Funded
NPS-19-N326-A	Metrics and Measurement in Additive Manufacturing Domain: Adoption and Return on Investment	N4	Amela Sadagic	Requirement	Funded
NPS-19-N333-A	Provisioning of a multi-int fusion environment in the era of AI and Machine Learning	USFF / FNMOC	Arkady Godin	Requirement	<i>Funded*</i>
NPS-19-N335-A	Improve the Effectiveness of the Decision-Maker Orientation Processes in Making Sense of the Events & Phenomena Presented by the Battlespace	USFF / FNMOC	Arkady Godin	Requirement	Funded
NPS-19-N347-A	Assessing Executive Leadership Development: Leaders, Leadership Teams, and Command Agility	USFF / COMOPTEVFOR	Winli McAnally	Requirement	<i>Funded*</i>
NPS-19-N354-A	MIMO Transmission Capabilities to Increase Data Transmission Rates Between Disconnected Tactical Entities	ASN RDA / SPAWAR	Gurminder Singh	Requirement	Funded