

**FY22 NRP Funded Research Projects**  
List sorted by: TRB ORG > Topic Sponsor ORG > IREF ID

Project (IREF) ID	IREF Title	PI Name	TRB ORG	Topic Sponsor ORG
NPS-22-N200-A	MQ-25A Manned/Unmanned Teaming	Scot A Miller	ASN(RDA)	ASN(RDA)
NPS-22-N188-A	Impact of Autonomous Robot Assisted Proactive Grooming on Underwater Hull Cleanliness	Jarema M Didoszak	ASN(RDA)	NAVSEA
NPS-22-N345-A	CNO Ship Availability Maintenance Team Workload and Manning	Paul T Beery	ASN(RDA)	NAVSEA
NPS-22-N187-A	Additive Manufacturing and Testing of High Metal Content High Performance Ramjet Grains	Ibrahim E Gunduz	ASN(RDA)	NAWCWD
NPS-22-N219-A	Common Message Sets Across Data Links	Brian P Wood	ASN(RDA)	NAWCWD
NPS-22-N033-A	Utilizing Virtual and Augmented Reality to Augment Real World Operational Training to Improve Proficiency	Amela Sadagic	ASN(RDA)	ONR
NPS-22-N263-B	Ultrahigh Temperature Materials for Hypersonic Systems Readiness	Claudia C Luhrs	ASN(RDA)	SSP
NPS-22-M337-A	Marine Corps Forces Special Operations Command (MARSOC) SOF-MAGTF Capabilities Integrations Analysis and Operational Modeling	Robert E Burks	FMF	MARSOC
NPS-22-M201-B	A Technical Roadmap for Autonomy for Marine Future Vertical Lift (FVL)	Scot A Miller	HQMC AVN	HQMC AVN
NPS-22-M255-B	Proliferated LEO Architecture Enabling Beyond Line of Sight Fires (pLEO BLOS Fires)	Wenschel D Lan	HQMC CD&I	HQMC CD&I
NPS-22-M273-A	Condition-Based Maintenance Implementation and Potential in USMC Ground Transport	Eva Regnier	HQMC I&L	HQMC I&L
NPS-22-M205-A	M&RA Manpower Models Modernization	Chad W Seagren	HQMC M&RA	HQMC M&RA

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NPS-22-M131-A	Equipment and Supply Readiness	Bryan M O'Halloran	HQMC P&R	HQMC P&R
NPS-22-M359-A	Extending Cognitive Assistance with AI Courses of Action	Sharon M Runde	HQMC PP&O	HQMC PP&O
NPS-22-M254-A	Developing a Model-Based Systems Engineering (MBSE) Land Domain Construct for Marine Corps Systems Command	Warren Vaneman	MARCORSYSCOM	MARCORSYSCOM
NPS-22-N098-A	OFRP Phase Variation in Signature and Destructive Behaviors	Kathryn J Aten	N1	N1
NPS-22-N099-A	Behavioral Techniques for Improved Performance and Recovery during Sustained Stressful Periods	Simona L Tick	N1	N1
NPS-22-N100-A	Assessment of Navy Performance Evaluation	Latika Hartmann	N1	N1
NPS-22-N128-A	Reducing Stigma and Encouraging Help-Seeking Behavior	Deborah E Gibbons	N1	N1
NPS-22-N137-A	Performance Evaluation Trait Validation	Erik Helzer	N1	N1
NPS-22-N277-A	Preparing Engineering Duty Officers (EDOs) for Command of Major Acquisition Shore Commands and Major Acquisition Programs	Simona L Tick	N1	N1
NPS-22-N323-A	Perceptions of Inclusion and Impact on Retention Decisions	Kathryn J Aten	N1	N1
NPS-22-N060-B	Cyber Warfighting System for Resilience and Response	Scott E Jasper	N2/N6	FCC/C10F
NPS-22-N157-A	Game Theory and Prescriptive Analytics for Naval Wargaming Battle Management Aids	Bonnie W Johnson	N2/N6	N2/N6

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NPS-22-N184-A	Joint All Domain Command & Control (JADC2) Naval Analysis	Mark E Nissen	N2/N6	N2/N6
NPS-22-N271-A	Long Range Fires in Degraded and Denied Environments	Eugene P Paulo	N2/N6	N2/N6
NPS-22-N279-A	Naval Integration into Joint Data Strategies and Architectures in JADC2	Arkady A Godin	N2/N6	N2/N6
NPS-22-N305-A	Considerations for Cross Domain / Mission Resource Allocation and Replanning	Bonnie W Johnson	N2/N6	N2/N6
NPS-22-N336-A	Robustness and Vulnerability Measures of Deep Learning Methods for Cyber Defense	Thor Martinsen	N2/N6	NCDOC
NPS-22-N180-A	Indications & Warning for Amphibious Ops against Taiwan: Philosophy, Methodology, Applications, Results	James J Wirtz	N2/N6	ONI
NPS-22-N270-A	Expeditionary Domain Awareness - Intelligence Support to NECC & NECC Support to Intelligence Analysis (NECC focus)	Arijit Das	N2/N6	ONI
NPS-22-N052-A	Nuclear Deterrence and the Space and Cyber domains.	Matthew R Crook	N3/N5	N3/N5
NPS-22-N053-A	Implications of Two Peer Nuclear-Armed Adversaries on U.S. Deterrence Strategy and the Future of Arms Control Agreements	Aleksandar Matovski	N3/N5	N3/N5
NPS-22-N053-B	Nuclear Deterrence and Arms Control Agreements between three Peer Adversaries	Matthew R Crook	N3/N5	N3/N5
NPS-22-N055-A	Assessing the Effectiveness of Deterrence Options on Taiwan Contingency Operations	Jeffrey A Appleget	N3/N5	N3/N5
NPS-22-N094-A	Leveraging Naval Diplomacy to Reinforce Economic Programs and Compete with China	Emily L Meierding	N3/N5	N3/N5

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NPS-22-N094-B	Securing Access to Sustain Presence and Overcome Chinese Influence in the Indo-Pacific	Michael S Malley	N3/N5	N3/N5
NPS-22-N117-A	Leverage AI to Learn, Optimize, and Wargame (LAILOW) for Strategic Laydown and Dispersal (SLD) of the USN Operating Forces	Ying Zhao	N3/N5	N3/N5
NPS-22-N138-A	Prospects for Deterrence, Escalation, Coercion and War in the Indo-Pacific	James A Russell	N3/N5	N3/N5
NPS-22-N155-A	Competition with Iran in a Constrained Resource Environment	Afshon P Ostovar	N3/N5	N3/N5
NPS-22-N249-A	Enhancing US-Japan-Taiwan Cooperation/Deterrence Efforts for Potential Taiwan Contingencies	Michael A Glosny	N3/N5	N3/N5
NPS-22-N257-A	Strategy and Conventional-Nuclear Integration for the Navy	James A Russell	N3/N5	N3/N5
NPS-22-N050-A	Posturing Spares for Great Power Competition	Margaret M Hauser	N4	N4
NPS-22-N057-A	Expanding URL Officer Corps' Logistician Experience	Bryan J Hudgens	N4	N4
NPS-22-N079-A	Secure Communication for Contested Environments	Britta Hale	N4	N4
NPS-22-N080-A	Predictive Modeling for Navy Readiness Based on Resource Investment in Supply Support and Maintenance	Magdi N Kamel	N4	N4
NPS-22-N091-A	EUCOM's POL Capability & Capacity Gaps – Single Fuel Concept Follow On	Lawrence M Walzer	N4	N4
NPS-22-N140-A	Warfare Analysis of Logistics Agility in a Contested Environment	Jeffrey A Appleget	N4	N4

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NPS-22-N056-A	Interdisciplinary Study of Combating Hybrid Threats	Daniel W Temple	N7	N7
NPS-22-N068-A	Clandestine Mine Countermeasures Optimization for Autonomy and Risk Assessment	Sean P Kragelund	N8	N8
NPS-22-N224-A	Advancing the Application of Design of Experiments (DOE) to Synthetic Theater Operations Research Model (STORM) Data	Susan M Sanchez	N8	N8
NPS-22-N252-A	Navy Expeditionary Readiness Cost Modeling	Daniel Reich	N8	N8
NPS-22-N260-A	Torpedo Inventory Optimization	Javier Salmeron-Medrano	N8	N8
NPS-22-N298-A	Capturing Risk in Capital Budgeting	Johnathan C Mun	N8	N8
NPS-22-N332-A	Structured and Unstructured Data Sciences and Business Intelligence for Analyzing Requirements Post Mortem	Ying Zhao	N8	N8
NPS-22-N222-A	Cost-Benefit Analysis of F/A-18E/F and EA-18G Simulators	Robert J Eger	N9	N9
NPS-22-N234-A	Networked Airborne ISR&T Long Endurance - Communications Architecture (NAILE-CA)	Victor R Garza	N9	N9
NPS-22-N258-A	Analysis of Pathways to Reach Net-Zero Naval Operations by 2050	Kristen Fletcher	N9	N9
NPS-22-N265-A	Electrical Energy Storage Strategy to Support Electrification of the Fleet	Douglas Van Bossuyt	N9	N9
NPS-22-N275-A	Using Additive Processing to Harness and Implement Graphene Technology for Wear and Corrosion Protection	Andy Nieto	N9	N9

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NPS-22-N278-A	Expanding Rigid Hull Inflatable Boats (RHIBs) Survivability via Cost-effective Up-armoring	Jarema M Didoszak	N9	N9
NPS-22-N357-A	Hydrogen Fuel in Support of Unmanned Operations in an EABO Environment	Anthony G Pollman	N9	N9
NPS-22-N192-A	Bento Box—Modular/Recoverable Stratospheric Balloon Capabilities to Support Distributed Maritime Operations	Wenschel D Lan	N9	NAVSPECWARCOM
NPS-22-N192-B	Bipartite Graph Learning for Autonomous Task-to-Sensor Optimization	Mark Karpenko	N9	NAVSPECWARCOM
NPS-22-N195-B	Optimization of Business Processes through Digitization and Automation	Ryan S Sullivan	N9	NAVSPECWARCOM
NPS-22-N215-A	Tactical ISR/C2 Integration with AI/ML Augmentation	Randy W Maule	USFF	CNSF
NPS-22-N347-A	USV and UAV Teaming for ISR-T Capability	Brian P Wood	USFF	CNSF
NPS-22-N090-B	Assessment of Nighttime Airborne Visual ASW Capability	Oleg A Yakimenko	USFF	SMWDC
NPS-22-N181-A	COTS AI/ML Technology for Data Fusion and Track Management	Victor R Garza	USFF	USFF
NPS-22-N208-A	Bayesian Search Study for USW	Roberto Szechtman	USFF	UWDC
NPS-22-N250-A	Seabed Warfare and Target Folder Processes (Continuation)	Shelley P Gallup	USFF	UWDC
NPS-22-N355-A	Distributed Maritime Logistics for Theater Undersea Warfare	Shelley P Gallup	USFF	UWDC