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Funding Opportunities Specifically for Early Career UNH Investigators: Defense, Energy, and Security – Federal Agencies -- 1.10.19

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SPONSOR	SPONSOR SUBUNIT	PROGRAM NAME	TOPIC AREA / PROGAM GOAL	ELIGIBILITY <i>Citizenship/residency requirements very widely. Always check sponsor's requirements carefully.</i>	AWARD DURATION & AMOUNT	PROGRAM URL OR CONTACT	MOST CURRENT DEADLINE	MOST CURRENT FOA OR GUIDELINES	RELEASE DATE
Dept. of Defense (DOD)	Air Force Office of Scientific Research (AFOSR)	Young Investigator Research Program	Basic research areas of current interest as detailed in the current AFOSR BAA Specific topics lie within the areas of: ◊ Engineering and Complex Systems ◊ Information and Networks ◊ Physical Sciences ◊ Chemistry and Biological Sciences ◊ Other Innovative Research Concepts	For FY 2019: •U.S. citizen, national, or permanent resident by 01 Oct 2018 •Received a Ph.D. or equivalent degree on 1 April 2012 or later •Employed full-time in a permanent, career- competitive, or tenure-track, position by an U.S. institution of higher education, industrial laboratory, or non-profit research organization •PIs with early career awards from other agencies or entities are eligible, but the proposed research must have a scope different from that already funded by the other organization.	Up to \$150,000/yr for 3 years Exceptional proposals will be considered individually for higher funding level and/or longer duration (up to 5 years upon a successful third year review granting option pickup)	http://www.wpafb.af.mil/Welcome/Fact-Sheets/Display/Article/842100/#anchor2	Jun 1, 2018	FA9550-18-S-0002 (Search Grants/gov for Archived)	3/8/2018
Dept. of Defense (DOD)	Army Research Office (ARO)	Young Investigator Program (See pp.66-68 of ARO Broad Agency Announcement (BAA) for Basic and Applied Scientific Research for Fiscal Years 2017 through 2022 (WW911NF-17-S-0002)	Research in: ◊ Materials sciences ◊ Ballistics and aeromechanics sciences ◊ Human sciences ◊ Survivability, lethality, and vulnerability analysis and assessment ◊ Chemistry ◊ Electronics ◊ Physics ◊ Environmental sciences ◊ Life sciences ◊ Mechanical sciences ◊ Mathematical sciences ◊ Computing sciences and network sciences	•U.S. citizen, U.S. national, or permanent resident alien •Tenure-track position at U.S. university or college •Held PhD or equivalent for fewer than 5 years at the time of application Eligibility of PIs with early career awards from other agencies or entities is not addressed in FOA.	Up to \$120,000/yr for 3 years	https://www.arl.army.mil/www/pages/8/W911NF-17-S-0002.pdf	Ongoing BAA expires Mar 31, 2022	https://www.arl.army.mil/www/pages/8/W911NF-17-S-0002.pdf	4/1/2017
Dept. of Defense (DOD)	Defense Advanced Research Projects Agency (DARPA)	Young Faculty Award	Innovative research proposals in these specific Topic Areas (TAs) of interest: ◊ Biologically inspired GPS-denied navigation ◊ Enhancing Prophylactic Immunity and the Immune Response ◊ Plant Bio-mining System ◊ Bioaccelerants ◊ Quantum inspired classical optical computing ◊ The Biology of Team Performance ◊ Smart City Sensing for Chemical and Explosive Threat Detection and Identification ◊ Bio-inspired modeling of resilience and efficiency in complex systems ◊ Quantifying Software Vulnerability Longevity ◊ Hybrid Intelligent Agents ◊ Complete Logic Erasure And Recovery (CLEAR)	U.S. Citizens, U.S. Permanent Residents, and Foreign Nationals who meet these eligibility criteria by the full proposal deadline: •Current tenure-track assistant or associate professors OR •Current tenured faculty within 3 years of their Tenure date OR •Equivalent at a non-profit research institution within 12 years of the receipt of their Ph.D. AND •Employed at a U.S. Institution •Not a previous YFA recipient or former DARPA program manager Submissions to young investigator programs sponsored by other agencies are not restricted. Non-U.S. individuals may participate to the extent that such participants comply with any necessary nondisclosure agreements, security regulations, export control laws, and other governing statutes applicable	Base Period: Up to \$250,000/yr for 2 years + Option Period: Up to \$500,000 for 1 additional year (Director's Fellowship; awarded to select awardees based on project performance)	https://www.darpa.mil/work-with-us-for-universities/young-faculty-award	Executive Summary (1 per TA) Sep 10, 2018 Proposal (1 per PI) Nov 13, 2018	DARPA-RA-18-02 Young Faculty Award	8/9/2018

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			<ul style="list-style-type: none"> ◊ Validating Type Consistency of Semi-Structured Data • Device-centric Detection of Security and Privacy Attacks Against Cellular Networks ◊ • Instinctual Radio Frequency (RF) Adaptive Circuits, Devices & Materials ◊ New Materials for Efficient Nonlinear Integrated Photonics ◊ Multi-Functional Materials for Additive Manufacturing ◊ Integrating Infrared Devices on Substrates with Low Dislocation Densities Using LowCost Fabrication Technologies ◊ Compact Planar Ultra broadband Array Antenna ◊ Non-foster Circuit Synthesis ◊ Integrated Analog Photonics ◊ Learning to Become Skilled at Tasks ◊ Predictive Vision ◊ Assessing the Reliability of Structural Systems Undergoing Intense Multi-Physics Loading Typical of Sustained Hypersonic Flight ◊ Health Monitoring of High Speed Propulsion Systems ◊ Dynamic Network Modeling for On-orbit Servicing, Assembly, and Manufacturing 						
Dept. of Defense (DOD)	Defense Advanced Research Projects Agency (DARPA)	Defense Science Study Group (DSSG)	<p>Program of education and study that introduces outstanding science and engineering professors to the United States' security challenges and encourages them to apply their talents to these issues.</p> <ul style="list-style-type: none"> • Each group meets for two years for approximately 20 days per year, divided into two week-long sessions each summer and two three-day sessions each academic year. • Each group meets for two years for approximately 20 days per year, divided into two week-long sessions each summer and two three-day sessions each academic year. • During these 8 sessions, members focus on defense policy, related research and development, and the systems, missions, and operations of the armed forces and the intelligence community. • Members interact with top-level officials from the Defense Department, as well as senior officials of other government organizations such as the Department of Energy, various intelligence agencies, and Congress. • Alumni offered continuing opportunities for involvement in areas of national security, e.g., advisors, consultants, members of boards, study groups, and task forces for organizations that address technological problems of national importance. 	<ul style="list-style-type: none"> • U.S. citizen able to acquire a security clearance • Nominations from senior leaders within major universities and from DSSG mentors, advisors, alumni, and current members • Selection is based on academic excellence, breadth of interests, references, consideration of discipline, and geographic distribution 	Travel and lodging	http://dssg.ida.org/	Nominations for DSSG 2020-2021 accepted through December 2018	http://dssg.ida.org/nominations.html	
Dept. of Defense (DOD)	Office of Naval Research (ONR)	Young Investigator Program	<p>Research areas (as described in the ONR Science and Technology (S&T) Department section of ONR's website at www.onr.navy.mil) which are of interest to ONR Program Officers</p> <p>Naval Science and Technology (S&T) Strategy (released in February 2105) has nine science and technology focus areas as follows:</p> <ul style="list-style-type: none"> ◊ 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 	<ul style="list-style-type: none"> • U.S. citizen, national, or permanent resident (on the date proposals are due) • Holding a first or second full-time tenure-track or tenure-track-equivalent faculty position • Received his/her PhD or equivalent degree on or after 01 January 2011 <p>PIs with early career awards from other agencies or entities are eligible, but the proposed research must have a scope different from that already funded by the other organization</p>	<p>Base Period: Up to \$250,000/yr for 2 years +</p> <p>Option Period: Up to \$250,000 for 1 additional year</p>	http://www.onr.navy.mil/Science-Technology/Directorates/office-research-discovery-invention/Sponsored-Research/YIP.aspx	8/31/18	N00014-18-S-F009	7/5/2018

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Dept. of Energy (DOE)	Office of Science	Early Career Research Program	Research in the disciplines supported by the DOE Office of Science: <ul style="list-style-type: none"> ◊ Advanced Scientific Computing Research (ASCR) ◊ Biological and Environmental Research (BER) ◊ Basic Energy Sciences (BES) ◊ Fusion Energy Sciences (FES) ◊ High Energy Physics (HEP) ◊ Nuclear Physics (NP) Check RFP for specific topics excluded or of high interest.	<ul style="list-style-type: none"> •There is NOT a U.S. citizenship requirement for the Principal Investigator or any project participants. •Untenured assistant or untenured associate professor on the tenure track •No more than 10 years between the year the PhD was awarded and the year of the FOA was issued (e.g., for 2019 deadline, PhD must have been granted no earlier than 2008) •May submit <i>full application</i> in only 3 competitions • Pls with early career awards from other agencies or entities are eligible, but the proposed research must have a scope different from that already funded by the other organization 	\$750,000 over 5 years	http://science.energy.gov/early-career/	Feb 6, 2019 (Preproposal) Apr 29, 2019 (Invited application)	https://www.grants.gov/web/grants/search-grants.html?keywords=de-foa-0002019	1/7/2019
National Geospatial-Intelligence Agency (NGA)	NGA Academic Research Program (NARP)	NGA New Investigator Program (NIP) Grants. <i>See p. 12 of National Geospatial-Intelligence Agency Academic Research Program (HHM0476-18-BAA-0001)</i>	Supports outstanding university faculty members to conduct innovative, high-payoff research that provides the basis for revolutionary progress in areas of science and technology affecting the needs and mission of NGA. Also supports the National System for Geospatial Intelligence, which is the combination of technology, systems and organizations that gather, produce, distribute, and consume geospatial data and information. End result is aimed at advancing GEOINT capabilities by improving analytical methods, enhancing and expanding systems capabilities, and leveraging resources for NGA, DOD and the IC.	<ul style="list-style-type: none"> •U.S. citizen, U.S. national, or permanent U.S. resident •Hold faculty positions at U.S. university and college •Held doctorate degree (PhD or equivalent) for less than 5 years at the time of application •Strong institution support for the applicant throughout the grant period is required. This support may include time released from teaching or administrative responsibilities, the purchase of equipment, support for the applicant's graduate students, and departmental cost sharing. (Eligibility of PIs with early career awards from other agencies or entities is not addressed in FOA.)	\$100,000/yr for 2 years + Up to one-year option valued at \$100,000	https://www.nga.mil/Partners/ResearchandGrants/Pages/AcademicResearchProgram.aspx		https://www.grants.gov/web/grants/search-grants.html?keywords=HM0476-18-BAA-0001	3/27/2018
National Security Agency (NSA)	Mathematical Sciences Program	Grants for Research in Mathematics - Young Investigators Grant	Self-directed, unclassified research in the areas of algebra, number theory, discrete mathematics, probability and statistics Does <i>not</i> support cryptology research	<ul style="list-style-type: none"> •U.S. citizen or permanent resident •Within 10 years of receiving PhD •Individuals who have a grant from another U.S. government agency (such as the NSF) that supports any of their research are ineligible to receive an NSA MSP Young Investigator Grant for the same time period. 	\$20,000/yr for 2 years	https://www.nsa.gov/what-we-do/research/math-sciences-program/	Opens on Sep 1 each year	Suspended for FY19	
Nuclear Regulatory Commission (NRC)	Nuclear Education Program	Faculty Development Grant <i>See: U.S. Nuclear Regulatory Commission Funding Opportunity Announcement (FOA), Scholarship and Fellowship Education Grant, Faculty Development Grant, and Trade School and Community College Scholarship Grant, Fiscal Year (FY) 2019 [FOA 31310018K0002]</i>	Support for new faculty in the nuclear-related fields of Nuclear, Mechanical, Civil, Environmental, Electrical, Fire Protection, and Materials Sciences Engineering or Health Physics The NRC has interest in topics including but not limited to <ul style="list-style-type: none"> •Fuels •Neutronics •Thermal-hydraulics •Accident-Progression (e.g., performance of safety relief valves) •Consequence •Emergency Preparedness •Radiation Protection Analysis •Radiochemistry •Probabilistic Risk Assessment •Seismology •Fire Risk Analysis •Advanced reactor (non-light water reactor) •Safety systems •Other related disciplines 	<ul style="list-style-type: none"> •Untenured, tenure-track faculty in the first 6 years of their career •U.S. citizen, national, or permanent resident Eligibility of PIs with early career awards from other agencies or entities is not addressed in FOA.	Base award is \$300,000 over 3 years Can include support for:	http://www.nrc.gov/about-nrc/grants.html#fd	Nov 30, 2018	https://www.grants.gov/web/grants/search-grants.html?keywords=31310018K0002	9/30/2018