

U.S. EPA Graduate Student Internship Opportunities in Partnership with the National Science Foundation

Graduate Research Internship (GRIP) Program

About EPA GRIP

The U.S. EPA's Office of Research and Development (ORD) has partnered with the National Science Foundation (NSF) to provide research internships for NSF Graduate Research Fellows. EPA provides in-kind support only. EPA GRIP contact: michaud.jayne@epa.gov

About NSF GRIP

The NSF Graduate Research Internship Program (GRIP) is open to eligible students who have NSF Graduate Research Fellowship Program (GRFP) funding. NSF selects awardees and may approve more than one student per project.

The NSF INTERN program encourages NSF principal investigators to include graduate internship opportunities in their research. INTERN is not restricted to GRFP Fellows. For details, please consult the NSF web pages for GRIP <https://nsf.gov/pubs/2018/nsf18069/nsf18069.jsp> and INTERN, <https://www.nsf.gov/pubs/2018/nsf18102/nsf18102.pdf>. EPA GRIP research topics and projects may be tailored for other training programs, such as the NSF INTERN funding opportunity.

EPA Internship Opportunity URL	EPA Graduate Research Internship Opportunity	ORD Research Lead & Mentor	ORD Research Area	Location of Internship	Duration (3-12 mo.)	Relevant NSF GRFP Fields of Study (FoS)
https://www.epa.gov/research-fellowships/performance-evaluation-low-cost-air-quality-sensors	Performance Evaluation of Low-Cost Air Quality Sensors	Andrea Clements clements.andrea@epa.gov	Air	Durham, NC	6 - 12 mos.	Atmospheric Chemistry Analysis, Machine Learning, Chemistry, Statistics, Environmental Engineering , Formal Methods, Verification, and Programming Languages
https://www.epa.gov/research-fellowships/evaluation-online-measurement-techniques-volatile-organic-compounds	Evaluation of Online Measurement Techniques for Volatile Organic Compounds	Ingrid George george.ingrid@epa.gov	Air	Research Triangle Park, NC	6 - 12 mos.	Please contact ORD Research Lead
https://www.epa.gov/research-fellowships/particulate-matter-and-black-carbon-emissions-inventories-and-measurement	Particulate Matter and Black Carbon Emissions Inventories and Measurement Techniques	Tiffany Yelverton yelverton.tiffany@epa.gov	Air	Research Triangle Park, NC	12 mos.	Please contact ORD Research Lead
https://www.epa.gov/research-fellowships/fundamental-uvir-reference-spectra-analysis-and-evaluation	Fundamental UV/IR Reference Spectra Analysis and Evaluation	Jeff Ryan ryan.jeff@epa.gov	Air	Research Triangle Park, NC	6 - 12 mos.	Please contact ORD Research Lead

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https://www.epa.gov/research-fellowships/development-energy-water-infrastructure-tools-aid-local-state-and-regional	Development of energy-water infrastructure tools to aid local, state, and regional decision making	Ozge Kaplan kaplan.ozge@epa.gov	Air	Research Triangle Park, NC	9 - 12 mos.	Many FoS areas including Engineering (civil, environmental, mechanical, industrial) and Operations Research, Systems Engineering, Decision Making and Risk Analysis, Economics, Applied Mathematics.
https://www.epa.gov/research-fellowships/international-household-energy-research	International Household Energy Research	Jim Jetter jetter.jim@epa.gov	Air	Research Triangle Park, NC	12 mos.	Please contact ORD Research Lead
https://www.epa.gov/research-fellowships/combining-measurements-and-modeling-better-understand-ammonia-air-surface	Combining Measurements and Modeling to Better Understand Ammonia Air-Surface Exchange Processes	John Walker Walker.Johnt@epa.gov	Air/ Ecosystems	Durham, NC	12 mos.	Please contact ORD Research Lead
https://www.epa.gov/research-fellowships/quantifying-consequences-spatio-temporal-dynamics-mangroves-forests-provision	Quantifying the Consequences of Spatio-temporal Dynamics of Mangroves Forests in the Provision of Ecosystem Goods and Services	Chandra Giri Giri.Chandra@epa.gov	Ecosystems	Research Triangle Park, NC	12 mos.	Please contact ORD Research Lead
https://www.epa.gov/research-fellowships/understanding-critical-rare-earth-metals-recovery-economics	Understanding Critical Rare Earth Metals Recovery & Economics	Larry Long (Region 4) long.larry@epa.gov Rick Wilkin wilkin.rick@epa.gov	Ecosystems	Atlanta, GA	3 - 12 mos. Prefer 12 mos.	Environmental Chemistry Systems, Chemical Engineering, Environmental Engineer, System Engineering, Civil Engineering, Mining Engineering, Geochemistry, Geophysics, Hydrology, Plasma Physics, Theoretical Physics, Economics, Decision Making and Risk Analysis, Science Policy
https://www.epa.gov/research-fellowships/quantifying-greenhouse-gas-emissions-water-impoundments	Quantifying Greenhouse Gas Emissions from Water Impoundments	Jake Beaulieu Beaulieu.Jake@epa.gov	Environmental Changes	Cincinnati, OH	3 - 12 mos.	Biogeochemistry Ecology Microbial Biology

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https://www.epa.gov/research-fellowships/particulate-matter-and-black-carbon-emissions-inventories-and-measurement	Black Carbon Emissions from Residential Combustion in Arctic Nations	Carlos Nunez nunez.carlos@epa.gov	Environmental Changes	Research Triangle Park, NC	12 mos.	Please contact ORD Research Lead
https://www.epa.gov/research-fellowships/remote-sensing-and-mapping-urban-environments	Remote sensing and image classification of urban environments for sustainable and healthy communities	Drew Pilant pilot.drew@epa.gov	Health	Research Triangle Park, NC		Computational and Data-enabled Science
https://www.epa.gov/research-fellowships/using-zebrafish-detect-developmentally-neurotoxic-chemicals-research	Using Zebrafish to Detect Developmentally Neurotoxic Chemicals Research	Stephanie Padilla padilla.stephanie@epa.gov	Health	Research Triangle Park, NC	3 - 12 mos.	Chemistry - Chemistry of Life Processes
https://www.epa.gov/research-fellowships/environmental-geophysics-research-and-development	Environmental Geophysics Research and Development	Dale Werkema werkema.d@epa.gov	Other	Newport or Corvallis	6 - 12 mos.	Please contact ORD Research Lead
https://www.epa.gov/research-fellowships/assessing-benefits-natural-environment-individual-well-being	Assessing the Benefits of the Natural Environment to Individual Well-being	Kim Rogers rogers.kim@epa.gov	Other	Research Triangle Park, NC	12 mos.	Please contact ORD Research Lead
https://www.epa.gov/research-fellowships/evaluating-impact-science-public-policy-and-decision-making	Evaluating the impact of science on public policy and decision-making	Kacee Deener deener.kathleen@epa.gov	Other	Washington, DC	3 - 12 mos.	Public Policy Science Policy
https://www.epa.gov/research-fellowships/implications-gut-content-purging-upon-chemical-residues-lumbriculus-variegatus	Implications of Gut Content Purging upon Chemical Residues in Lumbriculus variegatus for Highly Hydrophobic Chemicals	Lawrence Burkhard burkhard.lawrence@epa.gov	Safer Chemicals	Duluth, MN	3 - 12 mos.	Life Sciences, Chemistry: Chemistry - Environmental Chemical Systems, Life Sciences - Ecology, Life Sciences-Environmental Biology, Life Sciences other: Ecotoxicology
https://www.epa.gov/research-fellowships/linking-short-term-responses-ecologically-relevant-outcomes	Linking short-term responses to ecologically-relevant outcomes	Diane Nacci nacci.diane@epa.gov	Safer Chemicals	Narragansett, RI	12 months or summer only if time is limited	Developmental Biology, Ecology, Environmental Biology, Evolutionary Biology, Genetics, Genomics, Systems and Molecular Biology, Life Sciences, other: Ecotoxicology

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https://www.epa.gov/research-fellowships/liquid-chromatography-quadrupole-time-flight-mass-spectrometry	Liquid Chromatography-Quadrupole Time of Flight Mass Spectrometry	Elin Ulrich ulrich.elin@epa.gov	Safer Chemicals	Research Triangle Park, NC	12 mos.	Chemical Measurement and Imaging, Bioinformatics and other Informatics (specifically chemoinformatics), Statistics
https://www.epa.gov/research-fellowships/identifying-neurophysiological-signatures-neurotoxicant-action	Identifying Neurophysiological Signatures of Neurotoxicant Action	Tim Shafer shafer.tim@epa.gov	Safer Chemicals	Research Triangle Park, NC	9 - 12 mos.	Computer and Information Sciences & Engineering: Bioinformatics and other (chemoinformatics), Machine Learning Life Sciences Bioinformatics and Computational Biology Developmental Biology: Neurosciences Mathematical Sciences: Applied Mathematics
https://www.epa.gov/research-grants/using-gene-expression-predict-toxicity-caused-environmental-chemicals	Using Gene Expression to Predict Toxicity Caused by Environmental Chemicals (Broad Category)	Chris Corton corton.chris@epa.gov	Safer Chemicals	Research Triangle Park, NC	3 - 12 mos.	Chemistry - Chemistry of Life Processes
https://www.epa.gov/research-fellowships/development-and-application-methods-assessing-immunocompetence-bees	Development and Application of Methods for Assessing Immunocompetence in Bees	David Lehmann lehmann.david@epa.gov	Safer Chemicals			Please contact ORD Research Lead
https://www.epa.gov/research-fellowships/assessing-soil-responses-recently-restored-coastal-salt-marshes	Assessing soil responses in recently restored coastal salt marshes	Cathleen Wigand wigand.cathleen@epa.gov	Sustainable & Healthy Communities	Narragansett, RI	6 - 12 mos.	Geosciences - Marine Biology
https://www.epa.gov/research-fellowships/flood-induced-contaminants-fate-and-transport-and-exposure-risks-vulnerable	Flood Induced Contaminants Fate and Transport and Exposure Risks in Vulnerable Communities	Pai-Yei Whung Whung.Pai-Yei@epa.gov	Sustainable & Healthy Communities	Research Triangle Park, NC		Hydraulic model, chemical fate-and-transport model

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https://www.epa.gov/research-fellowships/research-and-technology-transfer-groundwater-quality-and-remediation	Research and Technology Transfer on Groundwater Quality and Remediation	Ann Keeley keeley.ann@epa.gov	Water	Ada, OK	3 - 12 mos.	Please contact ORD Research Lead
https://www.epa.gov/research-fellowships/data-analysis-sequences-and-qpcr-microbial-communities-during-algal-blooms	Data Analysis of Sequences and qPCR for Microbial Communities during Algal Blooms	Jingrang Lu lu.jingrang@epa.gov	Water	Cincinnati, OH	12 mos.	Please contact ORD Research Lead
https://www.epa.gov/research-fellowships/satellite-water-quality-monitoring	Satellite Water Quality Monitoring	Blake Schaeffer schaeffer.blake@epa.gov	Water	Durham, NC or Cincinnati, OH	12 mos.	Data Mining and Information Retrieval, Machine Learning, Graphics and Visualization, Geosciences, Limnology, Ecology, Computational and Data-enabled Science, Statistics, Science Policy, Communications, Science Education, Technology Education
https://www.epa.gov/research-fellowships/development-gene-centric-modeling-nutrient-cycling-0	Development of Gene Centric Modeling for Nutrient Cycling	John Rogers rogers.johne@epa.gov	Water	Gulf Breeze, FL	12 mos.	Please contact ORD Research Lead
https://www.epa.gov/research-fellowships/use-multidisciplinary-science-develop-coral-reef-biocriteria-protective	Use Multidisciplinary Science to Develop Coral Reef Biocriteria Protective of Biological Communities & Final Ecosystem Goods & Services	Debbie Santavy santavy.debbie@epa.gov	Water	Gulf Breeze, FL	6 - 12 mos.	Please contact ORD Research Lead
https://www.epa.gov/research-fellowships/spatial-statistical-network-modeling	Spatial Statistical Network Modeling	Naomi Detenbeck Detenbeck.naomi@epa.gov	Water	Narragansett, RI		Please contact ORD Research Lead
https://www.epa.gov/research-fellowships/drivers-and-impacts-coastal-acidification-pacific-northwest-estuaries	Drivers and Impacts of Coastal Acidification in Pacific Northwest Estuaries	Cheryl Brown brown.cheryl@epa.gov	Water	Newport, OR	3 - 12 mos.	Biogeochemistry, Chemical Oceanography, Geochemistry, Marine Biology

EPA GRIP Projects

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https://www.epa.gov/research-fellowships/using-water-isotopes-determine-flow-sources-and-their-contribution-cold-water	Using water isotopes to determine flow sources and test how landscape characteristics inform hydrologic behavior of the Snake River	Renee J Brooks brooks.reneej@epa.gov	Water	NHEERL	Corvallis	Hydrology, quantitative ecology