NSF Graduate Research Fellowship Program (GRFP) Supplemental Funding Project Opportunities - EPA

Program Overview:

The National Science Foundation (NSF) Graduate Research Fellowship Program (GRFP) INTERN is a supplemental funding opportunity program that allows for Graduate Research Fellows through NSF to apply for supplemental funding for professional development opportunities through Partner Agencies.
Fellows under the NSF GRFP can apply for supplemental funding (up to $55,000 for 6-month period) through NSF to work on a career development/research project with federal agencies such as the EPA.
The collaboration between NSF and the partner University through GRFP and EPA and that University and student is designed to expose graduate students to the federal workplace and provide career mentoring through rewarding research experiences that will allow students to grow professionally and build their network.

Application Process:

Application period for University/GRFP Fellow to apply for supplemental funding opportunities generally occurs each fiscal year (FY) from 1 Oct – 15 Apr. NSF generally has funds to support up to 260 opportunities per FY. All applications and approvals are subject to availability of funds from NSF.
The target deadline of 15 April indicates that any submission after that date may not be reviewed and processed until after the beginning of the next Fiscal year (1 October). Thus, a supplement request submitted to NSF in May (after the target deadline) may not be reviewed for possible funding until after the beginning of October.
The review and processing schedules may vary within NSF connected with the Fiscal Year calendar and the schedule for that particular Program. For instance, for NSF GRFP INTERN the information provided to the PI is that they should expect that review and processing will take at least 7 months from the time of submission to NSF. This information should be used in terms of considering start dates for internships.

Agency Requirements:

A signed collaboration agreement between the University and hosting Agency must be in place and submitted to NSF by the University as part of the Grad Fellows application. The agreement must describe the internship opportunity and the mentoring that will be provided to the student during the internship. The agreement should include a statement confirming that neither the graduate student nor the PI (University) has a financial interest in the organization hosting the internship.
A signed IP agreement (including summary of publication and patent rights) between the Hosting Agency and University/Student must be submitted prior to the award of the supplemental funding. NSF is responsible neither for the agreement reached nor the IP information exchanged between the NSF awardee and the host organization. This is an education grant between the NSF and Student, so the NSF has no rights in regard to IP developed under the GRFP. However, rights IP rights between outside Agency and University need to be documented and agreed on prior to NSF approving funds. Depending on complexity and can take several weeks/months to be finalized.
Once approved and funded the student will be in-processed into host agency as a "volunteer". Agency is responsible for in, security clearance, badging, and any miscellaneous GFP or Agency resources that may be needed by student to work on the project.
Agency should keep record of student and projects and follow-up every 6 months to check in on status. Student will need to be out-processed by Agency once supplemental funding timeframe is over.

NSF GRFP INTERN program

https://www.nsf.gov/pubs/2021/nsf21013/nsf21013.pdf https://www.epa.gov/research-fellowships/fellowship-research-areas

The NSF GRFP INTERN program encourages NSF principal investigators to include graduate internship opportunities in their research. INTERN is not restricted to GRFP Fellows. EPA GRIP research topics and projects may be tailored for other training programs, such as the **NSF GRFP INTERN funding opportunity.** To apply for funding, faculty/NSF PIs must obtain a letter of collaboration from an agency researcher. For more details, please refer to the URLs copied above. Additional information on specific terms and conditions for INTERN supplements to NSF GRFP awards can be requested by sending an email to GRFP INTERN: **GRFPINTERN@nsf.gov**

EPA GRFP Supplemental Funding Project Opportunities

Location of Internship	EPA Internship Opportunity URL	EPA Graduate Research Internship Opportunity/ Graduate Research Fellowship Opportunity	EPA Project Lead & Mentor	Duration (projects range from 3 and 12 months)	Relevant NSF GRFP Fields of Study (FoS)	EPA Research Area
Cincinnati, OH	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	3-12 mo.	Biogeochemistry Ecology Microbial Biology	Environmental Changes
Cincinnati, OH	https://www.epa.gov/research-fellowships/data-analysis-sequences-and-qpcr-microbial-communities-during-algal-blooms	Studies on Cyano HAB and Pathogens Using Molecular Approaches	Jingrang Lu lu.jingrang@epa.gov	12 mo.	Please contact ORD Research Lead	Water
Durham, NC	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	6 -12 mo.	Atmospheric Chemistry Analysis, Machine Learning, Chemistry, Statistics, Environmental Engineering, Formal Methods, Verification, and Programming Languages	Air
Durham, NC	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	Ryan Fulgham Fulgham.Ryan@epa.gov	12 mo.	Please contact ORD Research Lead	Air/ Ecosystems
Durham, NC	https://www.epa.gov/research-fellowships/developing-technologies-satellite-water-quality-monitoring	Developing Technologies for Satellite Water Quality Monitoring	Blake Schaeffer schaeffer.blake@epa.gov	12 mo.	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	Water
Newport or Corvallis, OR	https://www.epa.gov/research-fellowships/environmental-geophysics-research and-development	Environmental Geophysics Research and Development	Dale Werkema werkema.d@epa.gov	6 -12 mo.	Please contact ORD Research Lead	Other
Newport, OR	https://www.epa.gov/research-fellowships/drivers-and-impacts-coastal-acidification-pacific-northwest-estuaries	Drivers and Impacts of Coastal Acidification in Pacific Northwest Estuaries	Jim Kaldy Kaldy.jim@epa.gov	3-12 mo.	Biogeochemistry, Chemical Oceanography, Geochemistry, Marine Biology	Water
Research Triangle Park, NC	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	6 -12 mo.	Please contact ORD Research Lead	Air
Research Triangle Park, NC	https://www.epa.gov/research-fellowships/fundamental-uv-reference-spectra-analysis-and-evaluation	Fundamental UV/IR Reference Spectra Analysis and Evaluation	Jeff Ryan ryan.jeff@epa.gov	6 -12 mo.	Please contact ORD Research Lead	Air
Research Triangle Park, NC	https://www.epa.gov/research-fellowships/development-and-application-city-based-optimization-model-energy-technologies	Development and Application of City-based Optimization Model for Energy Technologies (COMET)	Ozge Kaplan kaplan.ozge@epa.gov	9-12 mo.	Many FoS areas including Engineering (civil, environmental, mechanical, industrial) and Operations Research, Systems Engineering, Decision Making and Risk Analysis, Economics, Applied Mathematics.	Air

Location of Internship	EPA Internship Opportunity URL	EPA Graduate Research Internship Opportunity/ Graduate Research Fellowship Opportunity	EPA Project Lead & Mentor	EPA Office	Duration (projects range from 3 and 12 months)	Relevant NSF GRFP Fields of Study (FoS)	EPA Research Area
Research Triangle Park, NC	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		12 mo.	Please contact ORD Research Lead	Ecosystems
Research Triangle Park, NC	https://www.epa.gov/research-fellowships/identifying-neurophysiological-signatures-neurotoxicant-action	Identifying Neurophysiological Signatures of Neurotoxicant Action	Kelly Carstens kelly.carstens@epa.gov		9-12 mo.	Computer and Information Sciences & Engineering: Bioinformatics and other (chemoinformatics), Machine Learning Life Sciences Bioinformatics and Computational Biology Developmental Biology: Neurosciences Mathematical Sciences: Applied Mathematics	Safer Chemicals
Research Triangle Park, NC	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		3-12 mo.	Chemistry - Chemistry of Life Processes	Safer Chemicals
Seattle, WA or Anchorage, AK	https://www.epa.gov/research-fellowships/assessing-environmental-health-issues-related-waste-disposal-sites-impacting	Assessing Environmental Health Issues Related to Waste Disposal Sites Impacting Alaska Tribes	Angel Ip ip.angel@epa.gov	Region 10	3-12 mo.	Life Sciences, Science Policy (Social Sciences)	Sustainable & Healthy Communities
Research Triangle Park, NC	https://www.epa.gov/research-fellowships/improving-numerical-models-atmospheric-pollution-inform-multiscale-air-quality	Improving numerical models of atmospheric pollution to inform multiscale air quality policy and management	Ben Murphy murphy.ben@epa.gov	CEMM, ORD	3-12 mo.	Please contact ORD Research Lead	Air
Research Triangle Park, NC	https://www.epa.gov/research-fellowships/improving-parameterizations-airborne-pollutants-and-their-implications-health	Improving parameterizations of airborne pollutants and their implications for health	Havala Pye (pye.havala@epa.gov)	CEMM, ORD	3-12 mo.	Please contact ORD Research Lead	Air
Research Triangle Park, NC	https://www.epa.gov/research- fellowships/building-holistic-view-molecular-responses-contaminants-emerging-concern-using	Building a holistic view of molecular responses of contaminants of emerging concern using deep-learning and artificial intelligence	Weichun Huang weichun.huang@epa.gov	CCTE, ORD	3-12 mo.	Water, Ecosystems, Public Health, Safer Chemicals	Human Health Risk Assessment
Research Triangle Park, NC	https://www.epa.gov/research-fellowships/utilizing-mass-spectrometry-understand-atmosphere	Utilizing mass spectrometry to understand the atmosphere	S. Ryan Fulgham Fulgham.ryan@epa.gov & Emma D'Ambro Dambro.emma@epa.gov	CEMM, ORD	3-12 mo.	Please contact ORD Research Lead	Air
Research Triangle Park, NC	https://www.epa.gov/research-fellowships/combining-measurements-and-modeling-derive-holistic-understanding-atmospheric	Combining measurements and modeling to derive a holistic understanding of atmospheric chemistry	Emma D'Ambro Dambro.emma@epa.gov	CEMM, ORD	3-12 mo.	Please contact ORD Research Lead	Air

Research Triangle Park, NC	https://www.epa.gov/research-fellowships/advancing-representation-atmospheric-chemistry-dimethyl-sulfide-dms-community	Advancing the representation of atmospheric chemistry of dimethyl sulfide (DMS) in the Community Multiscale Air Quality (CMAQ) model	Golam Sarwar sarwar.golam@epa.gov	CEMM, ORD	3-12 mo.	Please contact ORD Research Lead	Air, Public Health
Research Triangle Park, NC	https://www.epa.gov/research-fellowships/advancing-atmospheric-chemistry-improve-air-quality-and-reduce-exposure	Advancing atmospheric chemistry to improve air quality and reduce exposure to hazardous air pollutants	Rob Pinder pinder.robert@epa.gov	CEMM, ORD	3-12 mo.	Please contact ORD Research Lead	Air
Research Triangle Park, NC	https://www.epa.gov/research-fellowships/using-high-resolution-mass-spectrometry-hrms-and-non-targeted-analysis-nta	Using high-resolution mass spectrometry (HRMS) and non-targeted analysis (NTA) to discover novel PFAS in environmental water samples	Mark Strynar (Strynar.mark@epa.gov)	CEMM, ORD	3-12 mo.	Project is currently full and not accepting more applications. Please contact Mark Strynar if interested in future participation.	Water
Narragansett, RI	https://www.epa.gov/research-fellowships/linking-short-term-responses-ecologically-relevant-outcomes	Linking short-term responses to ecologically-relevant outcomes	Bryan Clark (Clark.Bryan@epa.gov)	ORD/NHEERL/Atlantic Ecology Division (AED)	12 months, or summer only if time-limited	Please contact ORD Research Lead	Safer Chemicals
Research Triangle Park, NC	Characterizing Sources of Persistent and Emerging Air Pollution in North America | US EPA	Characterizing Sources of Persistent and Emerging Air Pollution in North America	Kirk Baker (baker.kirk@epa.gov)	Center for Environmental Measurement and Modeling (CEMM), Office of Research and Development	6 months	Please contact ORD Research Lead	Air
Cincinnati, OH	https://www.epa.gov/research-fellowships/biosensor-arsenic-determination-different-types-waters	Biosensor for Arsenic Determination in Different Types of Waters	Tao Li (li.tao@epa.gov)	Center for Environmental Solutions and Emergency Response (CESER), Office of Research and Development	6 months	Please contact ORD Research Lead	Sustainable, Safe, and Climate Smart Communities
Research Triangle Park, NC	https://www.epa.gov/research-fellowships/revitalizing-forest-modeling-unleashing-molecular-biomarkers-precision-climate	Revitalizing Forest Modeling: Unleashing Molecular Biomarkers for Precision in Climate Change Predictions	Dr. Yue Ge (ge.yue@epa.gov)	Center for Computational Toxicology and Exposure (CCTE), Office of Research and Development	6 months	Please contact ORD Research Lead	Climate Change and Resilient Systems

RTP, NC; Washington, DC; Corvallis, OR; Newport, OR; Cincinnati, OR	Analyze and Advance One Health Approaches at EPA's Office of Research and Development | US EPA	Analyze and Advance One Health Approaches at EPA's Office of Research and Development	Tonya Nichols (Nichols.Tonya@epa.gov)	Immediate Office, Center for Public Health and Environmental Assessment, Office of Research and Development	6 months	Please Contact ORD Research Lead	Public Health
Durham, NC or Cincinnati, OH	Stormwater Research for Emergency Response and Recovery | US EPA	Stormwater Research for Emergency Response and Recovery	Anne Mikelonis (Mikelonis.anne@epa.gov)	Center for Environmental Solutions and Emergency Response (CESER), Office of Research and Development	6 months	Please contact ORD Research Lead	Water and Emergency Response