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To get copies of these charts, pertinent reports and other reference information go to:

Central Desktop <http://www.centraldesktop.com/>

to login to the USC site, get username and password from nlwalker@usc.edu

EPA Research Funding Information Available from the DC Res Adv Office

Guide to FY15 EPA Research Funding

Agency (EPA) Program Charts (~10)

Program Officer (EPA) Data Sheets

Various resources - charts, plans, workshops, presentations

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EPA
Office of Research and Development (ORD)

<http://www.epa.gov/research/>

The mission of EPA is to protect human health and the environment. Science at EPA provides the foundation for credible decision-making to safeguard human health and ecosystems from environmental pollutants. The Office of Research and Development (ORD) is the scientific research arm of EPA, whose leading-edge research helps provide the solid underpinning of science and technology for the Agency.

ORD has four integrated research programs that address EPA strategic goals and two highly targeted research programs that focus on special responsibilities related to homeland security and human health risk assessment. Strategic Research Action Plans outline the research under way in the programs. (<http://www.epa.gov/research/research-programs.htm>)

The research is conducted by ORD's three national laboratories, four national centers, and two offices located in 14 facilities across the country and in Washington, DC and extramural programs administered by the National Center for Environmental Research.

EPA
Office of Research and Development (ORD)
Major Organizational Components

<http://www2.epa.gov/aboutepa/organization-chart-office-research-and-development-ord>

National Center for Computational Toxicology (NCCT)

National Center for Environmental Assessment (NCEA)

Cincinnati Division
Washington Division

Research Triangle Park Division

National Center for Environmental Research (NCER)

Applied Science Division
Peer Review Division
Technology and Engineering Division

Health Research and Fellowships Division
Research Support Division

National Exposure Research Laboratory (NERL)

Atmospheric Modeling and Analysis Division
Ecosystems Research Division
Human Exposure and Atmospheric Sciences Division

Ecological Exposure Research Division
Environmental Sciences Division
Microbiological and Chemical Exposure Assessment Research Division

National Health and Environmental Effects Research Laboratory (NHEERL)

Atlantic Ecology Division
Gulf Ecology Division
Mid-Continent Ecology Division
Toxicity Assessment Division

Environmental Public Health Division
Integrated Systems Toxicology Division
Research Cores Unit
Western Ecology Division

National Homeland Security Research Center (NHSRC)

Threat Consequence Assessment Division (TCAD)
Decontamination and Consequence Mgmt Div (DCMD)

Water Infrastructure Protection Division (WIPD)

National Risk Management Research Laboratory (NRMRL)

Air Pollution Prevention and Control Division
Land Remediation and Pollution Control Division
Water Supply and Water Resources Division

Ground Water and Ecosystems Restoration Division
Sustainable Technology Division
Environmental Technology Assessment, Verification, and Outcomes Office

EPA ORD

Research Programs

<http://www.epa.gov/research/research-programs.htm>

EPA researchers are working collaboratively, across many scientific disciplines and in close partnership with EPA partners and stakeholders to conduct research that is transdisciplinary. Agency scientists and engineers engage experts from related scientific fields, and from a diversity of other disciplines, including economics, law, policy, communications and information sciences to provide the solutions the Agency and the nation need to meet today's complex environmental and human health challenges. The overall research portfolio is organized into six highly coordinated, transdisciplinary research programs:

Air, Climate, and Energy (ACE)

The ACE program builds on 40 years of achievement in air pollution research. EPA researchers are exploring the dynamics of air quality, global climate change, and energy as a set of complex, interrelated challenges.

Safe and Sustainable Water Resources (SSWR)

The SSWR program seeks to ensure that clean, adequate, and equitable supplies of water are available to support human well-being and aquatic ecosystems. SSWR research integrates social, environmental, and economic factors to provide smarter, more sustainable guidance for the management of the nation's water resources and infrastructure.

Sustainable and Healthy Communities (SHC)

The SHC program is designed to inform and empower community decision-makers as they create and implement sustainability policies. SHC research provides decision support tools, models, and metrics that can be used to make these policies more efficient, balanced, and equitable.

Chemical Safety for Sustainability (CSS)

The CSS program is primarily designed to assure the safety of chemicals and products that we use in our everyday lives and that impact the environment. CSS research provides decision-support tools needed to efficiently evaluate chemicals, conduct risk management, and prioritize time-critical research.

Human Health Risk Assessment (HHRA)

The HHRA program provides human health risk assessments for existing chemicals and chemical mixtures that find their way into our air, water, and land. The HHRA program plays a unique role in serving the needs of EPA programs by incorporating, integrating, and coordinating the use of scientific information as a foundation for regulatory decision-making on these chemicals.

Homeland Security (HS)

The HS program conducts research that increases EPA's capability to carry out its homeland security responsibilities, which include helping communities prepare for and recover from environmental disasters, as well as acts of terrorism that might involve chemical, biological, or radiological weapons. The HS program also conducts research on drinking water, wastewater systems, and on technologies have broader environmental and health protection applications.

EPA ORD

Intramural Research and Development Labs

- **Office of Research and Development Laboratories**

These labs develop knowledge, assessments, and scientific tools that form the underpinnings of the vast majority of EPA's protective standards and guidance.

- National Center for Computational Toxicology
- National Center for Environmental Assessment
- National Center for Environmental Research
- National Exposure Research Laboratory
- National Health and Environmental Effects Research Laboratory
- National Homeland Security Research Center
- National Risk Management Research Laboratory

- **Program Office Laboratories**

These labs directly support regulatory implementation, compliance, and enforcement at a national level. For example, the National Vehicle and Fuel Emissions Laboratory performs motor vehicle standards testing.

- Office of Air and Radiation labs:
 - National Air and Radiation Environmental Laboratory
 - National Center for Radiation Field Operations
 - National Vehicle and Fuel Emissions Laboratory
- Office of Chemical Safety and Pollution Prevention labs:
 - Analytical Chemistry Laboratory
 - Environmental Chemistry Laboratory
 - Microbiology Laboratory
 - Microarray Research Laboratory

- **Regional Laboratories**

These labs provide scientific data that support the Regional environmental programs' needs for immediate information to make decisions.

- Regional Science and Technology Organizations
- Region 1's New England Regional Laboratory
- Region 2's Laboratory at EPA's Edison (New Jersey) Environmental Center
- Region 3's Laboratory and Field Services at EPA's Environmental Science Center
- Region 4's Science and Ecosystem Support Division
- Region 5's Chicago Regional Laboratory
- Region 6's Environmental Services Branch Laboratory
- Region 7's Science and Technology Center
- Region 8's Central Regional Laboratory
- Region 9's Central Regional Laboratory
- Region 10's Manchester Environmental Laboratory

EPA ORD NCER
Extramural S&T Funding Programs

<http://www.epa.gov/ord/htm/grantopportunity.htm>

Science to Achieve Results (STAR) Research Grants

The STAR program funds research grants in numerous environmental science and engineering disciplines through a competitive solicitation process and independent peer review. The program engages the nation's best scientists and engineers in targeted research that complements EPA's laboratory research and research conducted by our partners in other federal agencies.

Science to Achieve Results (STAR) Graduate Fellowships

This program awards graduate education fellowships for master's and doctoral level students in environmentally related fields of study. The purpose of the fellowship program is to encourage promising students to obtain advanced degrees and pursue careers in environmental fields. Master's level students may receive support for a maximum of two years. Doctoral students may be supported for a maximum of three years with funding available, under certain circumstances, over a period of four years. The application period starts in the summer and remains open for 3 months.

Greater Research Opportunities (GRO) Undergraduate Fellowships

The GRO fellowship program helps build capacity in universities with limited funding for research by awarding undergraduate fellowships to students in environmental fields. The purpose of the fellowship program is to encourage promising students to obtain advanced degrees and pursue careers in environmental fields. Eligible students will receive support for their junior and senior years of undergraduate study and for an internship at an EPA facility during the summer between their junior and senior years.

Public Health Fellowships

To enhance the training of highly qualified and motivated public health professionals, EPA has partnered with the Association of Schools of Public Health (ASPH) to offer a professional development program for graduates of accredited US Schools of Public Health. Graduates apply to ASPH in December or January for one-year placements in EPA laboratories or offices to work on high-priority, environmental, public health issues. Applicants must be US citizens or hold a visa permitting permanent residence in the U.S.

American Association for the Advancement of Science (AAAS) Fellowships

Since 1981, EPA has managed the AAAS Science and Engineering Fellows Program in cooperation with the American Association for the Advancement of Science (AAAS). The fellowship program is designed to provide an opportunity to learn first-hand how scientific and technological information is used in environmental policy-making; to provide a unique public policy learning experience; to demonstrate the value of science, technology, and economics in addressing societal problems; and to make practical contributions to the more effective use of scientific and technical knowledge in the programs of the U.S. government. Fellows will work in offices throughout the EPA on projects of mutual interest to the Fellows and the hosting offices. Applications are accepted by AAAS in the fall of each year.

EPA NCER

Science to Achieve Results (STAR) Grant Program

http://cfpub.epa.gov/ncer_abstracts/index.cfm/fuseaction/recipient.welcome/displayOption/grants

What: NCER's Science to Achieve Results or STAR program funds research grants and graduate fellowships in numerous environmental science and engineering disciplines through a competitive solicitation process and independent peer review. The program engages the nation's best scientists and engineers in targeted research that complements EPA's own outstanding intramural research program and those of our partners in other federal agencies. In addition, through this same competitive process, NCER periodically establishes large research centers in specific areas of national concern. At present, these centers focus on children's health, hazardous substances, particulate matter, and estuarine and coastal monitoring.

STAR research is funded through Requests for Applications (RFAs) that are derived from the ORD Strategic Plan and from research plans for specific topics developed by ORD. RFAs are prepared in cooperation with other parts of the Agency and concentrate on areas of special significance to the EPA mission. At present, STAR is focusing on the health effects of particulate matter, drinking water, water quality, global change, ecosystem assessment and restoration, human health risk assessment, endocrine disrupting chemicals, pollution prevention and new technologies, children's health, and socio-economic research.

When: Periodic, for 2014 the following has been released

- [2014 EPA Greater Research Opportunities \(GRO\) Fellowships For Undergraduate Environmental Study:](#)
Closing: May 27, 2014
- Air, Climate, and Energy (ACE) Research Centers – opens Spring 2014
- Monitoring for Communities - opens Summer 2014

Where: See website - <http://www.epa.gov/ncer/rfa/>

EPA ORD NCER

Extramural Research Centers

http://cfpub.epa.gov/ncer_abstracts/index.cfm/fuseaction/outlinks.centers

NCER periodically establishes both STAR and non-STAR (Congressional line item) research centers. STAR research centers are competed to achieve a long-term research goal, since research centers create the following opportunities for scientific advancement:

- provide for multidisciplinary interactions in a wide range of scientific areas - informing state-of-the-art research programs for a specific purpose,
- support a coordinated program of research with the ultimate goal of facilitating and accelerating translation of basic science knowledge into clinical applications or intervention strategies,
- develop fully coordinated programs that incorporate exposure assessment and health effects research with development and validation of risk management and health prevention strategies,
- establish a national network that fosters communication, innovation, and research excellence,
- improve study designs, resulting from intra-Center, multi-disciplinary integration and cross-disciplinary work,
- ability to pursue "higher-risk" efforts in methods development, validation, and pilot studies, providing a greater potential for innovation, and
- longer term continuity for (i.e., for five years) allows long-term planning and research implementation.

EPA ORD NCER

Active Research Centers

http://cfpub.epa.gov/ncer_abstracts/index.cfm/fuseaction/outlinks.centers

Airborne Particulate Matter Research Centers

Center for Environmental Implications of Nanotechnology

- Duke University — Center for Environmental Implications of NanoTechnology
- University of California — Center for Environmental Implications of Nanotechnology (UC—CEIN)

Centers of Excellence in Children's Environmental Health and Disease Prevention Research - 2012

- Center for the Evaluation of Environmental Impacts on Fetal Development
- The Center for Study of Neurodevelopment and Improving Children's Health
- Cincinnati Children's Hospital Medical Center
- Center for Lifecourse Exposures & Diet: Epigenetics, Maturation & Metabolic Syndrome
- The UCSF Pregnancy Exposures to Environmental Chemicals (PEEC) Children's Center
- UC Berkeley/Stanford Children's Environment Health Center 2013
- Dartmouth College 2013
- UC Davis Center for Children's Environmental Health and Disease Prevention
- Novel Methods to Assess the Effects of Chemicals on Child Development
- Southern California Children's Environmental Health Center
- Lifecourse Exposures & Diet: Epigenetics, Maturation & Metabolic Syndrome

Center for Advancing Microbial Risk Assessment

- Center for Advancing Microbial Risk Assessment - Michigan State Univ

Clean Air Research Centers

- Air Pollution Mixtures: Health Effects across Life Stages - Harvard Univ
- Great Lakes Air Center for Integrative Environmental Research - Michigan State Univ
- The Southeastern Ctr for Air Pollution and Epidemiology: Multiscale Measurements and Modeling of Mixtures - Emory Univ
- University of Washington Center for Clean Air Research

Computational Toxicology and Bioinformatics Centers

- Texas - Indiana Virtual STAR Center - Univ Houston
- The Carolina Environmental Bioinformatics Research Center - UNC Chapel Hill

Public/Private Partnership Center: Health Effects Institute

- Health Effects Institute (2010 — 2015)