

Robert Horner
Environmental Policy Analysis Section
Environmental Science Division
Argonne National Laboratory

Education:

M.S. Arizona State University, Sustainability, 2010
B.S. North Carolina State University, Industrial and Systems Engineering, 2007
B.A. North Carolina State University, Science, Technology, and Society, 2007

Professional Experience:

2011-Present Policy Analyst, Energy/Environmental Systems Specialist
Environmental Science Division
Argonne National Laboratory

Experienced in analysis at the intersection of energy technology, policy, economics, and the environment. Responsible for assessing the impacts of energy technologies within their policy, regulatory, and technical contexts. Expertise includes life cycle assessment, tool development, uncertainty analysis, and policy insight.

Summary of Previous Experience:

2/2011-7/2011 U.S. Senate Committee on Commerce, Science, and Transportation,
Washington, DC

Researched energy policy issues and briefed staff on topics including clean/renewable energy standards legislation in the 111th Congress, shale gas lifecycle and implications for West Virginia, oil futures speculation, and gas price reduction strategies. Informed staff and liaised with Japanese officials during Fukushima Daiichi nuclear crisis. Assisted the Senior Climate Advisor to Senator John D. Rockefeller IV with daily energy-related issues.

8/2010-11/2010 National Academy of Sciences, Washington, DC

As a Science and Technology Policy Graduate Fellow, supported visioning process on future research for the Committee on Human Dimensions of Global Change. Interacted with committee members, experts in the field, and federal government agency officials from participants of the US Global Change Research Program to determine key research areas to pursue. Implemented a series of planning meetings/conferences in order to structure the visioning process.

6/2010-8/2010 LMI Consulting, McLean, VA

Developed a carbon inventory reporting tool and guidance for the Department of Energy under Executive Order 13514. This tool forms the basis for the DOE reporting portal for all federal agencies. Researched and prepared portions of a biofuels assessment report for the Department of Defense.

1/2008-4/2008 ICF International, Durham, NC

Performed airborne pollution transport modeling and helped develop a screening procedure for point-source emission sites for the Environmental Protection Agency.

Summer 2006 Michigan Technological University, Houghton, MI

Performed research and authored report on possible environmental and health impacts of nanoparticles in decabrominated diphenyl ethers, which are used as chemical flame retardants.

2004-2006 North Carolina State University Nuclear Reactor Program, Raleigh, NC

Operated NC State PULSTAR nuclear research reactor. Licensed with Nuclear Regulatory Commission (no longer active).

Summer 2004 Crisenbery Engineering, Fairbanks, AK

Fabricated precision parts for the HC 320 emergency leak clamp for the trans-Alaska oil pipeline. Attended testing of clamp by Alyeska Pipeline Service Company. Deployed on the arm of an excavator, the hydraulic clamp is designed to temporarily seal a high-pressure leak caused by a bullet-hole-sized breach in the pipeline wall. At least two clamps were built and are currently deployed.

Research Interests:

Renewable Energy Technology
Carbon Capture and Sequestration
Fossil Fuel Energy Technology
Energy Policy

Publications:

Author or co-author of 2 report publications and conference presentations.