Contact

www.linkedin.com/in/ashley-armstrong-4208a09 (LinkedIn)

Top Skills

Analysis
Energy Efficiency
HVAC

Ashley Armstrong

Supervisory Lead Mechanical Engineer, Appliance Standards Program at U.S. Department of Energy
Gaithersburg, Maryland, United States

Experience

U.S. Department of Energy

Supervisory Lead Mechanical Engineer, Appliance Standards Program
2004 - Present (19 years)

• Manages and develops test procedure rulemakings for the Appliance Standards Program within BTO, including making key technical decisions, coordinating the technical teams, developing the schedule for the rulemakings, reviewing the test procedures, and managing the budget.
• Aids in the development and analysis, including reviewing key technical analysis issues, supporting the energy conservation standard rulemakings for the Appliance Standards Program within BTO.
• Manages the manufacturer certification process and specifications for the certification database, which accepts certification and compliance reports.
• Manages the product testing for compliance, enforcement, and rulemaking investigation and works directly with the engineers from the testing laboratories.
• Manages ENERGY STAR test procedure and verification programs for the Appliance Standards Program within BTO.
• Responsible for managing the budget for test procedures, ENERGY STAR, and certification and enforcement subprograms for the Appliance Standards Program within BTO.
• Regularly presents DOE's policies and positions to key stakeholders at public meetings, technical committees, conferences, and other public fora.
• Interfaces daily with internal staff, DOE senior leadership, and external stakeholders, including manufacturers, to interpret the Appliance Standards regulations and provide advice to aid in compliance.
• Represents BTO's Appliance Standards Program on technical issues with Congressional inquiries, including participation in meetings with Congressional staffers.

Navigant Consulting Inc.

Associate Director - Energy Efficiency
2004 - 2010 (6 years)

• Developed appliance testing procedures, energy conservation standards, and certification and enforcement provisions in support of the Appliance Standards Program within BTO.
• Managed multi-year projects investigating the benefits and costs associated with increasing the efficiency of residential and commercial appliances and heating and air-conditioning equipment.
• Managed multiple staff by providing them work assignments and feedback on a regular basis.
• Analyzed technology advancements, which can be incorporated into the design of a product to potentially improve the energy efficiency, through physical teardowns or computer simulations.
• Conducted performance testing of residential and commercial products using DOE's testing standards to better characterize product performance.
• Evaluated the cost implications incurred by manufacturers as a result of DOE efficiency, testing, or certification regulations on various appliances and heating and air-conditioning equipment.

National Renewable Energy Laboratory
Student Intern
June 2002 - August 2002 (3 months)

Buildings and Thermal Systems Student Intern
-Create and model methods of measuring a solar hot water heater's overall performance;
-Analyze ventilation data studies in terms of annual load and energy performance; and
-Execute research using data acquisition systems at the Thermal Test Facility.

BP Solar
Solar Energy Intern
June 2002 - August 2002 (3 months)

-Perform various electrical tests on modules for qualification purposes; and
-Invent and implement new methods of reliability testing on photovoltaic modules.

Education

Virginia Tech
MS, Mechanical Engineering · (2002 - 2004)

James Madison University

BS, Integrated Science and Technology - Energy and Engineering · (1998 - 2002)