

David Howell

Battery Advocacy for Technology and Transformation (BATT) Coalition



SUMMARY

Over 40 years of experience planning and successfully executing complex, multi-disciplined research & development and manufacturing activities that include high-power/high-capacity battery research and manufacturing including critical minerals production and recycling, electric vehicle charging-grid interoperability-cybersecurity, connected & autonomous vehicles, and advanced polymer & intermetallic materials and structures research & processing.

PROFESSIONAL EXPERIENCE

Strategic Marketing Innovations (2024-present)

- **Vice President and Director of Strategy for the BATT Coalition**

Consultant for high-capacity battery and materials research, development, and manufacturing for Energy and Defense end-uses. Director of Strategy for the Battery Advocacy for Technology and Transformation (BATT) Coalition supporting a comprehensive legislative and federal agency policy strategy that will maximize market incentives and trade protections necessary to establish and secure the domestic upstream manufacturing supply chain for lithium-based battery materials.

U.S. Department of Energy, Washington DC (2003-2024)

- **Principle Deputy Director, Manufacturing and Energy Supply Chains Office (MESO)**

Established multi-billion-dollar programs funded by the Infrastructure Investment and Jobs Act, the Inflation Reduction Act, and the Defense Production Act, supporting scale-up and deployment of the nation's manufacturing to establish critical domestic supply chains, increase circularity, reduce industrial base carbon emissions through manufacturing facility upgrades, develop energy workforce capabilities and resources, and leverage private sector investment.

MESO also worked to bolster small and medium enterprises and communities in energy transition and partnered with the U.S. Department of Treasury and the Internal Revenue Service to support the Qualifying Advanced Energy Project Credit (48C) Program.

- **Director, Vehicle Technologies Office**

Lead an array of activities that help reduce America's dependence on foreign oil and secure a clean energy future. Direct the Department's \$400 million advanced vehicle R&D portfolio for advanced batteries and critical minerals, high power density electronics, electric vehicle charging infrastructure and Grid modernization (including cybersecurity), lightweight materials, advanced combustion, and fuels, connected and autonomous vehicles, and vehicle deployment activities.

- **Program Manager for Electric Vehicles Research & Development, Vehicle Technologies Office**

Responsible for the Department's R&D portfolio to electric drive vehicle batteries, electric drive components including advanced power electronics and electric machines, vehicle systems analysis & testing, and charging infrastructure/grid integration.

- **Lead Engineer for Battery Research & Development, Vehicle Technologies Office**

Responsible for developing electrochemical energy storage (EES) technologies to support the commercialization of hybrid and electric vehicles. Portfolio included fundamental battery materials research spearheaded by the national laboratories and universities, and the development of full-scale lithium-ion battery cells and packs in cooperation with the United States Advanced Battery Consortium (USABC).

Oak Ridge National Laboratory, Oak Ridge, Tennessee (1991-2003)

- **Program Development Manager for Aerospace Technologies, and Technical Fellow for Federal Public-Private Partnerships**

Managed cooperative R&D projects with commercial and military Aerospace partners related to advanced composite structures, innovative processing techniques for carbon fiber composites, and diagnostic tools to predict failure of critical aircraft components

United States Air Force, Wright-Patterson AFB, Ohio (1985-2001)

- United States Air Force Materials Laboratory, Active Duty Commissioned Officer and Deputy Program Manager for USAF/ Strategic Defense Initiative Organization (SDI) Advanced Materials for Space Structures Program

EDUCATION

- B.S., Aerospace Engineering, University of Tennessee, Knoxville, TN, 1985
- Program Manager Training, Air Force Institute of Technology, 1986
- Acquisition Management, Air Force Institute of Technology, 1988
- Squadron Officers School, Air University, 1990

AWARDS

- 2024: Department of Energy's "Secretary's Excellence Award" for dedication, service, and career achievements to the Department of Energy and the Nation from Energy Secretary Jennifer Granholm.
- 2022: Secretary of Energy's Honors Award for successful execution of the Bipartisan Infrastructure Law "Battery Materials and Manufacturing Grant Initiative" from Energy Secretary Jennifer Granholm.
- 2020: Secretary of Energy's Outstanding Achievement Award for Leadership in establishing the Federal Consortium for Advanced Batteries from Energy Secretary Jennifer Granholm.
- 2018: "*Lifetime Achievement Award*" from NAATBatt International, the trade association of developers, manufacturers, suppliers, and users of advanced battery technology in North America.
- 2018 "*Exceptional Leadership Recognition*" award from the International Coalition for Energy Storage & Innovation for advanced lithium-ion battery development.
- 2012: Significant Achievement Citation with American Reinvestment and Recovery Act Pin from Energy Secretary Steven Chu
- 2011: "Research Partner Award" from the United States Council for Automotive Research for Leadership in Advanced Electric Vehicle Battery Development and Commercialization
- 2010: "Golden Shovel" award from DOE's American Reinvestment and Recovery Act Executive Director