

Jay Whitacre

Trustees Professor at Carnegie Mellon University

Pittsburgh, PA, US

Jay Whitacre examines the materials science of synthesizing, characterizing, and implementing promising materials for energy storage.

Biography

Professor Whitacre examines the materials science of synthesizing, characterizing, and implementing promising materials and device architectures for energy storage and generation technologies such as Li-ion batteries, fuel cells, and photovoltaics. He will concurrently be addressing the policy implications involved with selecting and implementing these renewable technologies. Other research topics include hybrid power systems for distributed and mobile platforms, high throughput materials selection methods, and ultra fast laser modification of materials for solid-state electrochemical devices. Whitacre has authored or co-authored over 60 peer review papers and is an inventor on over 30 patents that are issued or pending. He has numerous honors to his name, including the 2014 Caltech/Resnick Sustainability Institute Resonate Award, was listed as one of the top 25 Eco-Innovators in the world by Fortune Magazine in 2014, and was the 2015 winner of the \$500,000 Lemelson-MIT Prize for Innovation.

Industry Expertise

Public Policy, Energy, Automotive

Areas of Expertise

Hybrid Power Systems, Electric Vehicles, Power Grids, Energy Storage, Conversion, Lithium Ion Batteries, Renewable Technologies

Education

University of Michigan

Ph.D. Materials Science

University of Michigan

M.S.E. Materials Science

Oberlin College

B.A. Physics

Accomplishments

**Winner of the \$500,000 Lemelson-MIT Prize for Innovation
2015**

**Listed as One of the Top 25 Eco-Innovators in the World, Fortune Magazine
2014**

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