# Weidong Song

**Weidong Song, Ph.D.**

## Biography

Dr. Weidong Song grew up in a small village in northern China where harsh working conditions were part of daily life. As a young boy, Song dreamed of designing and building machines that would free people from tedious, labor-intensive jobs such as plowing a field by hand. This dream inspired Song to become an engineer.

Dr. Song is a composite materials project engineer for the Innovation Center at Boeing Commercial Airplanes in Seattle where he oversees development and implementation of new composite materials for the next-generation of commercial airplanes.

A prolific innovator, Song is inventor of the Ultrasonically-Aided Electrospraying (UAE) method for producing monodisperse nanoparticles. His work represents a major breakthrough in producing and dispersing nanoparticles of uniform size, which has applications in the production of nanoparticle-enhanced composite materials, durable functional coatings, high specific-impulse space thrusters and nanoparticle 3D printing. Dr. Song holds three patents in the area of nanoparticle technology and electric space propulsion.

Dr. Song was chosen as one of the nation's brightest young engineers and invited to the 2013 National Academy of Engineering's 19$^{th}$ U.S. Frontiers of Engineering Symposium. He also was asked to co-chair the 2014 European Union-United States Frontiers of Engineering Symposium. In 2012, Song was named Engineer of the Year by Boeing Commercial Airplanes for outstanding contributions.