



#### **INSTITUTION**

The Dow Chemical  
Company

#### **EDUCATION**

Virginia Tech University  
University of Calcutta

## **ABHISHEK ROY**

Dr. Abhishek Roy is a Scientist at The Dow Chemical Company with a passion for addressing global challenges of energy and water. The journey started in 2003 with fuel cells at Virginia Tech to current research at Dow (Hydrocarbons) towards energy efficient separation processes. Recipient of the prestigious Gordon E. Moore Medal from SCI, Dr. Roy's most significant contribution is reducing the energy requirements of water purification (BWRO) by 30 % and improving water quality by 40% (DOW FILMTEC™ ECO) through the invention of a breakthrough terpolymer membrane chemistry. With experience in technical and R&D leadership, customer interactions, he developed several membrane technologies enabling 10+ reverse osmosis products. A major impact is in the residential segment where these innovations are providing drinkable water in India and China.

Dr. Roy coauthored 100+ scientific articles and presentations and is an inventor of 23 granted U.S. patents. Notable awards include Edison award, Dow's presidential sustainability Innovator award, Influential Researcher IE&C, and outstanding recent graduate alumnus from Virginia Tech. He participated in Dow's Leadership In Action program for rehabilitation of Creeks in Cebu, Philippines. Born in Kolkata, India, Abhishek currently lives with his beloved wife Mou and twin boys, Aharshi and Anush in Houston.