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Shannon Boettcher is currently an Assistant Professor in Chemistry at the University of Oregon. His research interests center on developing materials for solar energy conversion and storage. Current efforts focus on the synthesis and study of heterogeneous electrocatalysts with precise molecular and nanoscale structures, the development of alternative deposition routes for high-performance III-V semiconductors such as GaAs, and on understanding the details of interfaces between semiconductors and electrocatalysts in oxygen and hydrogen evolving photoelectrodes.

Boettcher received his B.A. in Chemistry at the University of Oregon in 2003 where he was a Barry M. Goldwater Scholar. He received his Ph.D. in Inorganic Chemistry with Galen Stucky at UC Santa Barbara in 2008 where he was an NSF Graduate Research and UC Chancellor's Fellow. As a Kavli Nanoscience Institute Prize Postdoctoral Scholar, he studied three-dimensional Si structures for solar energy conversion and storage at the California Institute of Technology working with Nate Lewis and Harry Atwater. In 2010, he joined the Chemistry Department at the University of Oregon and in 2011 was named one of 18 DuPont Young Professors worldwide.