

Moetasim Ashfaq is Computational Climate Scientist Oak Ridge National's division of Laboratory Computer Science and Mathematics. His research focuses on how the components of the climate system interact, the effect those interactions have on water resources and how varying degrees of global warming could further affect those resources. Through modeling, he analyzes effects on water resources at both a global and local level. He also is involved in Department of Energy projects to develop a broad-based modeling framework that advances our ability to assess challenges posed by climate change, whether it's resulting from natural variability or anthropogenic influences.

Ashfaq received his Ph.D. degree in Atmospheric Sciences from Purdue University and his Masters in Philosophy and Science degrees in Physics from Quaid-i-Azam University, Islamabad, Pakistan. He was recipient of Henry Silver Graduate Research Excellence Scholarship in 2009. His PhD work was focused on understanding how large- and fine-scale climate processes respond to anthropogenic increases in greenhouse forcing, including the uncertainties associated with climate model errors. At Oak Ridge, he is involved in projects aimed at helping scientists assess likely climate change impacts at the regional level through improved modeling. He has contributed to U.S. Federal hydropower climate assessments and serves as visiting scientist for developing countries under the Visiting Scholar Program of Abdus Salam International Center for Theoretical Physics, Trieste, Italy.