

Dr Vivek Argawal

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Dr Vivek Agarwal is a distinguished staff scientist at Idaho National Laboratory specializing in crosscutting applications of artificial intelligence (AI) and advancements of instrumentation and controls research. His current research advances sensor technologies, AI/machine learning (ML), autonomous controls, and wireless communications for (1) achieving automation for efficiency gain in current fleet of operating reactors; (2) performing real-time predictive control to achieve autonomous control and operation of advanced reactors; (3) performing of risk-informed predictive evaluation; and (4) formulating an approach to address scalability, explainability, and trustworthiness of AI/ML technologies, easing their adoption in nuclear and other critical industries.

Dr Agarwal is the 2023 Asian American Most Promising Engineer of the Year. He received in 2019 the Presidential Early Career Awards for Scientists and Engineers (highest early career honour bestowed by the U.S. Government) for innovative research. He also received 2016 Laboratory Director Early Career Achievement Award and the 2019 American Nuclear Society Human Factors, Instrumentation and Controls Division Ted Quinn Early Career Award.

Dr Agarwal has authored more than 100 peer-reviewed journal and conference publications. He has authored one book chapter, two U.S. Patents and six software copyrights Issued.