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Boche began her work at EPRI in its Heat Rate Improvement R&D program, focused on power plant simulations and project management. Following this she worked in the cross-sector initiative AI.EPRI to help further the use of Artificial Intelligence in the industry.

Boche's previous experience includes project engineer and, later, R&D project management for STEAG Energy Services GmbH, Department System Technologies - Energy Management Systems, where she led development of a decision-support software and was the lead for the innovation management of System Technologies department. She was a lecturer on power plant design studies and simulations at Fachhochschule Dusseldorf and a research associate at TU Berlin, Institute for Energy Technologies.

She has a bachelor's degree in mechanical engineering from RWTH Aachen; a master's degree in energy and process engineering from Technical University Berlin, and a PhD in Energy Engineering from Technical University Berlin.