

Dr. Adam Cahill is a Principal Investigator supporting the Air Force Research Laboratory (AFRL), where he oversees side-channel and optical assessments of microelectronic security architectures. Employed by Riverside Research, Dr. Cahill has spent over seven years assessing the security of microelectronic components within the Microelectronics and Embedded Systems Assurance (MESA) lab at AFRL. His technical contributions range from developing semi-invasive probing techniques to conducting holistic security assessments of complex device architectures. Notably, his recent efforts to modernize the microelectronic assessment process have led to a standardized security risk taxonomy currently being adopted across the broader Department of Defense (DoD) assessment community.

Prior to his work at AFRL, Dr. Cahill completed a postdoctoral fellowship in the nuclear engineering department at the Air Force Institute of Technology (AFIT). He holds a master's degree in electrical engineering from the University of Louisville and a PhD in high energy density plasma physics from Cornell University, where his doctoral research on x-ray diagnostics was supported by a National Nuclear Security Administration (NNSA) Stewardship Science Graduate Fellowship.