The DoD COE-FutureG is funded by the U.S. Department of Defense through the Army Research Laboratory. Arizona State University spearheads this interdisciplinary research alliance, collaborating with Ohio State University and various partners from the U.S. Army Research Laboratory and other DoD research entities. COE-FutureG aims to foster an environment conducive to research, education, knowledge dissemination, and workforce development, all geared towards bolstering the U.S. military’s technological superiority in the realm of Future Generation Wireless Technology.

FutureG networks, such as 6G and beyond, are envisioned to seamlessly incorporate artificial intelligence and machine learning into integrated sensing, communication and computation. FutureG networks are distinct from existing networks like 5G due to various advances, including global coverage, faster data rates, lower delays, high-precision positioning, improved network reliability, greater energy efficiency and better security. The COE-FutureG’s interdisciplinary research team is dedicated to pioneering foundational hardware and software innovations to deliver exceptional network capacity, developing scalable network control, promoting intelligent and resilient network management, strengthening security and reliability, crafting energy-efficient system-on-a-chip technologies, and leading the development of augmented and virtual reality applications specifically tailored for FutureG technologies. COE-FutureG is firmly committed to advancing the research skills of both graduate and undergraduate students, fostering and empowering emerging researchers in their early careers within the realm of FutureG.