

The School of Computing has an active National Science Foundation (NSF) Grant (ID: OAC 2321699) from 10/01/2023 to 09/30/2025, which aims to provide a cutting-edge 5G private cellular network to support campus research projects, and agriculture and rural scenarios. This project will conduct various wireless experiments on campus at Nebraska, Lincoln, including mainly 3.4-3.6GHz radio spectrum usage. This is critical for the success of this NSF project and shows great board impact on industry, high-education, and MidWest states in terms of wireless innovations.

Our NSF project will conduct a variety of wireless experiments, based on SDR platform and commercial 5G base stations. This operation will enable us to debug, evaluate, test advanced network slicing techniques in real-world networks on campus, which provides a critical experience (as well as datasets) for academic research community.