

Eligibility of Applicant

This is the eligibility justification of the applicant (Dr. Qiang Liu), regarding to the Part 5 subpart E of Commission Rules.

- (a) *The radiofrequency experimentation will be conducted in a defined geographic area under the applicant's control;*

The applicant is the principal investigator (PI) of the NSF-funded project (named Husker-Net, see husker-net.unl.edu), which will provide a private cellular network to support campus research projects, and agriculture and rural scenarios. We will deploy multiple software defined radio (SDR) devices (e.g., NI USRP) at multiple on-campus locations, which will enable a wide range of wireless experiment capabilities, mainly in sub 6-GHz spectrum (which will not violate the requirement described in § 5.303). The access of Husker-Net is fully controlled by the applicant as the PI role, including both physical and remote accessing.

- (b) *The applicant has institutional processes to monitor and effectively manage a wide variety of research projects; and*

The Husker-Net team (including PI and Co-PI, and senior personnel) has prior experiences in administrating and managing the process of using hardware and software of campus-wide platform. We have an existing institutional procedure to monitor and manage the supported research projects on campus under Husker-Net. The wireless experiments will be fully monitored and will not incur risks regarding to the safety of the public (as described in § 5.311).

- (c) *The applicant has demonstrated expertise in radio spectrum management or partner with another entity that has such expertise.*

The applicant is a tenure-track assistant professor (see cse.unl.edu/~qliu), with the research focus on wireless communication and networking. The track-record expertise of the applicant will assure the controllability in the radio spectrum management throughout this program license period.

Sincerely,



Qiang Liu

Assistant Professor
School of Computing
University of Nebraska-Lincoln
qiang.liu@unl.edu
402-472-5006
<https://cse.unl.edu/~qliu/>