

Applicant Eligibility

47 CFR 5.302 - Eligibility.

Program experimental licensees may be granted to the following entities: a college or university with a graduate research program in engineering that is accredited by the Accreditation Board for Engineering and Technology (ABET); a research laboratory; a hospital or health care institution; a manufacturer of radio frequency equipment; or a manufacturer that integrates radio frequency equipment into its end product. Each applicant must meet the following requirements:

We are with the experimental Laboratory for Advanced Networks and Systems (eLANS) in the department of Computer Science and Engineering, Michigan State University.

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

There are two possible geographic areas that are planned to deploy the software radio device. The device transmitting power is under controlled to limit the radio coverage to the designated area and location.

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

The eLANS lab has lab rules to manage every project to be on the track. The lab team has successfully completed a wide range of research projects on Zigbee, Bluetooth, wireless sensor network, NFC and LTE. The device only works when the device operator is in position. The devices are never left unattended.

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

The eLANS research projects cover a wide variety of topics. Researchers in the lab are proficient in the wireless communication systems. As mentioned above, the team has successfully explored the wireless sensor network and other cellular communication network. The radio spectrum was well-managed along with these research project. The transmitted power is controlled within the limit at all time.