

From: Marojevic Vuk

To: Behnam Ghaffari

Date: November 08, 2019

Subject: 0923-EX-CN-2019

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Message:

We have been awarded a project from NSF where we will be developing the 3rd Platform for Advanced Wireless Research (PAWR) named AERPAW (Aerial Experimentation and Research Platform for Advanced Wireless).

For detailed information on the PAWR program, please see <https://advancedwireless.org>.

AERPAW is highlighted in <https://advancedwireless.org/research-triangle/>.

Mississippi State is a key academic partner in this collaborative research infrastructure project and we will be developing and testing software radios for integration into the main testbed at North Carolina State University.

We plan to conduct short-range experiments at low transmission powers, initially in the lab at Mississippi State and outdoors later. We plan to run experiments between fixed ground nodes and with a low-flying (up to 60 ft), small unmanned aerial vehicle. We will be testing 4G and 5G experimental waveforms using srsLTE and Open Air Interface (OAI), as well as other waveforms, such as OFDM and unmodulated tones.