

Position Title: Antenna Undergraduate Research Assistant

About the Missouri Institute for Defense and Energy (MIDE):

The mission of MIDE is to improve the quality of life by bridging academia with industry to address challenging problems. The vision of MIDE is to lead in the development of technologies that directly and positively impact society and to grow the leaders of tomorrow in a team-focused culture.

The main research areas within MIDE include high power electrical engineering, pulsed power, condensed matter physics, computational physics, radio frequency propagation and detection, alternative and energy storage, chemistry, biotechnology, and urban agriculture.

For more information about MIDE, visit umkc.edu/mide.

Position Summary:

UMKC is pleased to invite applications for a Graduate Research Assistant.

Duties / responsibilities in this role include, but are not limited to:

- Perform research in reconfigurable patch and horn antennas, via simulation and experimentation.
- Collect experimental data and perform curve fitting to theoretical models. Present data in technical graphics.
- Perform antenna characterizations including electrical, manufacturing and cost parameters as needed.
- Assist in writing reports and preparing briefings that reflect the technical efforts as requested.
- Write code and perform simulation studies as needed in COMSOL, CST, Solidworks and/or MatLab. Generate data and interpret results.

Prior experience in wireless communications or antenna design is not required; but preference may be given to candidates with experience in electromagnetics, computer simulation, and/or team projects. Strong verbal and written communication skills are also desired.

Compensation: Undergraduate Research Assistant

- \$15/hr for up to 20hrs/week paid biweekly (~\$1200/month)
- Tuition reimbursement/ scholarship/ increased salary are a possibilities for future semesters after demonstration of satisfactory progress.

To apply, please complete the application form located at https://umkc.co1.qualtrics.com/jfe/form/SV_09v41tZ5ow7v58G.