

To Friends of LeTourneau University:

The Electrical and Computer Engineering (ECE) program at LeTourneau University is seeking partners in industry for senior design projects. This letter introduces LeTourneau's program, its students' capabilities, and the specifics of being an industry sponsor.

LeTourneau University is world-renowned for its engineering program. The students who come here receive a technical background with a depth and breadth that enables them to become extremely successful in industry. Every student participates for at least one year (2 semesters) in a rigorous team-based senior design project. The projects are supported by the faculty and staff at LeTourneau University, and many of the most successful have an industry advisor as their client. It is LeTourneau's goal to see more projects directly associated with industry.

LeTourneau's engineering seniors have technical knowledge, the desire and ability to learn, and a strong work ethic – all significant benefits to industry. All engineering majors experience design projects in Engineering Design Methodology, Digital Electronics, Mechatronics, and other classes before their senior year. Specifically, for ECE concentrations, students take numerous classes in both analog and digital applications. These seniors have further design project experience in Electronics Lab I and either Electronics Design Lab or Microcomputer Design. Through these design projects, students gain application experience in the following areas: motor control, filter design, radio communications, PCB design, FPGA and CPLD design, Fleet Information System, RFID design, microprocessors and microcontrollers, PID controllers, PLC design, and team management.

Some of the most successful past ECE senior design projects include 1) the Diversity Digital Radio Mondiale (DDRM) Receiver project working closely with Rockwell Collins Inc., (\$50K) 2) the WIRES project with STEMCO Inc., (\$10K) 3) the AMP project with General Dynamics, 4) the LEMA project with Flanders Inc.(\$25K), 5) the EACS project with CCI Group (\$20K) and 6) the WAEVS project with TRIPAGA Inc.(\$20K) This small sampling shows that the ECE program at LeTourneau has experience with global, national, and local industries.

An industry partnership with a LeTourneau University senior design team benefits both parties.

The industrial partner gains:

- Time and abilities of four to eight students for one school year
- Result of the project that directly benefits the company
- Possible future employees with meaningful experience

In addition, LeTourneau students gain:

- Meaningful experience valuable to future employers
- Industry contacts
- Exposure to real-world applications not available through a classroom setting

Please consider becoming a sponsor for a LeTourneau senior design project.

The sponsor has the following four requirements:

- \$ 30,000 for start-up costs (negotiable)
- Equipment availability (if not available in campus labs)
- Specifications for a project that will directly meet the needs of the company
- Availability for at least one (1) meetings each month to provide technical support for the team

Thank you so much.

A handwritten signature in black ink that reads "Joonwan Kim". The signature is written in a cursive style with a large, stylized initial 'J'.

Joonwan Kim, Ph.D.

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