

## **Educators in Industry: K-12 Externship Program**

*June 3 – 28, 2019*

### **Information for Educators**

The Educators in Industry: K-12 Externship Program is a summer work experience in an environment that engages the educator in engineering or design-based activities in order to gain a practical understanding of how industry uses current tools, processes, and resources to solve technological challenges (Bowen & Shume, 2018).

This program provides four-week summer externships for K-12 teachers, administrators, career advisors, and other educational stakeholders to provide a firsthand look at how the engineering design process and 21st century skills are currently being used in an industry environment. Participants get a deeper understanding of how industry addresses a variety of technological challenges and can use that knowledge to help students further develop problem solving, critical thinking, communication, collaboration, and other 21<sup>st</sup> century skills. All educational stakeholders will benefit from this program; therefore, educators in any subject, grade level, staff or administrative position are encouraged to apply.

This will not be like a typical internship experience. During the four weeks, you will not be responsible for a single job, but rather you will move about many departments within the company to get an overall understanding of how the company operates. As part of that process, you may be given a project or mini tasks to complete, but the experience is designed to expose the educator to many different types of activities in which the company engages. This experience is not about matching your skill set with the company's needs. This experience is about exposing you to situations in which you may be unfamiliar, in order to equip you with additional knowledge and tools to better prepare your students with awareness and understanding of the engineering design process, 21st century skills, and career opportunities in STEM fields. The focus is on process knowledge, not content knowledge.

**Related Coursework:** All participants are required to register for coursework through NDSU, which provide opportunities to create engaging activities and experiences for students. Educators will earn 3 continuing education credits at no cost. These credits will be completed during both summer (2-credits) and fall (1-credit) courses. Graduate degree credits are available at the regular graduate tuition rate if you are enrolled in a graduate degree program.

**Stipend:** Participants will receive a \$2000 stipend for completing both the summer experience and coursework.

**Application Timeline:**

- February 1, 2019 Applications Due
- February 4-22, 2019 Interviews
- March 4, 2019 Positions Announced
- March 18, 2019 Placement Confirmations Due

**Program Participation Requirements:**

- Program dates: June 3 – 28, 2019
- Work full time Monday – Thursday
- Attend 1/2 day Friday morning meetings in Fargo
- Complete course requirements (see course syllabi for details)

**For additional information, please contact:**

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Reference

Bowen, B. D., & Shume, T. (2018). Educators in Industry: An Exploratory Study to Determine how Teacher Externships Influence K-12 Classroom Practices. *Journal of STEM Education: Innovations and Research*, 19(1), 5-10.