

J.B. SPEED SCHOOL OF ENGINEERING OUTREACH

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SPEED SCHOOL OUTREACH EFFORTS

Outreach efforts

- ▶ **2016-2017:** 7,000+ K-12 students received Engineering education throughout the Kentuckiana region
- ▶ **2017-2018:** 4,500+ K-12 students received Engineering education throughout the Kentuckiana region
- ▶ **Signature Partnerships:** Central High school, WES, Nativity Academy
- ▶ **Summer Camps:** ~15 camps hosted annually throughout the summer for grades 3-12
- ▶ **Outreach Team:** Speed school students and volunteers throughout various disciplines
- ▶ **Risk Management:** Minors on Campus Pilot program

OUTREACH HIGHLIGHTS

- ▶ **Community in Schools:** Southern Indiana after school program for elementary students. Meets once a week for 2 hours.
- ▶ **Campus Visits:** Elementary, middle and high school Math/ Science classes visits. 8-12 a semester.
- ▶ **Girls Rule STEM Summit:** full day of sessions designed to engage girls in STEM content through hands-on experiences. Parents, guardians, and leaders learn how to engage girls in STEM and receive great resources



SIGNATURE PARTNERSHIP HIGHLIGHTS

- ▶ **West End School:** Provided a maker space, tutoring and hack a thons twice a year. Middle school boys in West Louisville
- ▶ **Nativity Academy:** Maker Space, engineering education once a week, campus visits and hack a thons twice a week
- ▶ **Central High School:** Maker space, student volunteers for VEX robotics team and support of Engineering prep curriculum



SUMMER CAMPS HIGHLIGHTS

- ▶ 2016: 30 Camps offered for K-12 students
- ▶ 2017: 12 Camps offered for K-12 students
- ▶ 2018: 14 Camps offered for K-12 students
- ▶ Camps run first week of June- last week of July
- ▶ Students pay for camps. A limited number of scholarships are available.
- ▶ Brown Forman INSPIRE: 2 week enrichment program for underrepresented engineering students in high school

Summer 2018 Camp Name	Age Group	Cost
App Development, Elementary	3rd - 5th grade	\$275
LEGO EV-3 Robotics, Elementary	3rd - 5th grade	\$275
Camp Chenistry	3rd - 5th grade	\$175
Drone, Middle School	6th - 8th grade	\$300
Coding & Programming, Beginner	6th - 8th grade	\$330
LEGO EV-3 Robotics, Middle School	6th - 8th grade	\$275
App Development, Middle school	6th - 8th grade	\$275
3D Printing	6th - 8th grade	\$330
Coding & Programming, Intermediate	6th - 8th grade	\$340
Camp Chenistry	6th - 8th grade	\$175
Drone, High School	9th-12th grade	\$300
Coding & Programming, Beginner	9th-12th grade	\$330
Coding & Programming, Intermediate	9th-12th grade	\$340
3D Printing	9th-12th grade	\$330

RISK MANAGEMENT MINORS ON CAMPUS

- ▶ Supports providing a safe and responsible environment for K-12 students
- ▶ All UofL employees working with K-12 must be trained through the minors on campus program
- ▶ Either parent/guardian must sign waiver or 3rd party agreement signed
- ▶ The Office of Student Success can help you with becoming a trained volunteer



HOW CAN YOU GET INVOLVED?

- ▶ Signature Partners: All signature partners are schools focused on underrepresented populations in Engineering: females, minority students, first generation, low SES. Faculty could utilize our time with students to educate on Engineering in regards to their grant awards. Weekly/monthly basis.
- ▶ Campus Visits: Faculty can host a campus visit or even day long event to provide hands-on activities to students
- ▶ Summer Camps/INSPIRE: Faculty can partner with the outreach team to work with 3 - 12 students through presentations/hands-on activities
- ▶ Eastern Kentucky outreach: The MSU Kraft Academy has a program dedicated to Engineering for high school students. Programming can be designed to work with various populations in this program
- ▶ Individual programming: Design a specific initiative and work with our connections at JCPS, private schools, Oldham County, Bullitt County and Southern Indiana to work with K-12 students.

WHAT'S NEXT

▶ **Writing your grant proposal:**

- ▶ Schedule a time to meet with Dean DePuy and Heidi Neal to discuss how to meet your outreach requirement
- ▶ ASA can provide data to support the your proposed outreach initiatives

▶ **Keep us in the loop:**

- ▶ As you receive updates, let us know!
- ▶ Award is granted? Schedule a time to develop and discuss an action plan to meet the needs of your grant
- ▶ Keep in close contact with ASA to track the success of these efforts on the students you have inspired

▶ **We are here to help!**

- ▶ Dr. Gail DePuy, Associate Dean of Academic and Student Affairs
- ▶ Heidi Neal, Director of Student Success