

Ranken Technical College offers week-long STEM (Science, Technology, Engineering and Math) summer institutes designed to showcase opportunities for STEM teachers for grades 6 - 12, counselors and administrators in advanced technology. Learn how your content area connects to STEM careers of the future.

LEGO MINDSTORMS EV3 ROBOTICS & ENGINEERING STEM ACADEMY - St. Louis Location

For *FIRST* robotics coaches and educators! New to *FIRST* LEGO robotics and don't know where to start? **Bring your own robot** and we'll do the rest. Experience fun and motivating activities, inspired by missions from a variety of resources. Learn from a student's perspective, while reflecting on and sharing learning approaches, tips and tricks, and diverse applications in your classroom. Gain ideas for how to facilitate engaging, hands-on lessons that support your students to achieve learning goals and boost their 21st century skills. Enable them to become critical thinkers by growing their creative problem-solving skills and fostering team collaboration. We will provide guidance in planning robotics lessons and prepare you for coaching your team using LEGO Education inspired teaching materials and approach to learning. End the week fully prepared to implement LEGO MINDSTORMS EV3 robotics and coach your robotics team.

Instructor: Brian Keller, 4th grade teacher, Edgar Road Elementary School, B.A. Education, M.A. Education and Innovation. Mr. Keller previously taught 4th and 5th grades at Mallinckrodt Academy, SLPS. He has coached numerous *FIRST* LEGO League teams, taught robotics camps at the Ranken Summer Adventure Academies, and developed robotics programs at both Edgar Roads and Mallinckrodt Elementary Schools.

When/Where: June 15-19, 2020, 8AM–4PM, Ranken Technical College, 4431 Finney Avenue, St. Louis, MO

Registration Fee: \$25 (NON-REFUNDABLE); lunch will be provided daily.

ADVANCED LEGO MINDSTORMS EV3 ROBOTICS & ENGINEERING STEM ACADEMY - St. Louis Location

Instructor: Brian Keller

When/Where: June 22-26, 2020, 8AM–4PM, Ranken Technical College, 4431 Finney Avenue, St. Louis, MO

Registration Fee: \$25 (NON-REFUNDABLE); lunch will be provided daily.

DIRTY JOBS . . . THAT PAY WELL: STEM CAREER EXPLORATION - St. Louis Location

The focus of this institute is to explore innovative solutions in the technological areas of Carpentry, Major Appliance, Plumbing Technology, and Welding. Each morning, experience cutting edge technologies using our state-of-the-art laboratories and industrial equipment. You will have the opportunity to meet current students, professors, and leaders in the business community. In the afternoon, work through hands-on activities that can be integrated into classroom curriculum to broaden your students' appreciation for high technology careers. This institute will expose you to tomorrow's technology in a format not found in a traditional classroom setting.

Instructor: Joan Braun, educational consultant and STEM trainer. Ms. Braun has taught earth, physical, life science, and biology for over 30 years, B.A. Education, M.S. in Educational Technology. She currently facilitates the STEMpact Teacher Quality Institute and works at Little Creek Nature Area and the Challenger Learning Center.

When/where: June 29 – July 3, 2020, 8AM–4PM, Ranken Technical College, 4431 Finney Avenue, St. Louis, MO

Registration Fee: \$25 (NON-REFUNDABLE); lunch will be provided daily.

Graduate College Credit Option: 3 credit hours via Lindenwood University Cooperative Credit. Requires full attendance and development of a lesson plan that meets the defined criteria. Cost: \$225 (\$75/credit hour).

Registration information coming soon: <https://ranken.edu/programs/summer-stem-academies-for-educators/>

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