As an elementary school teacher, you are looking for innovative ways to incorporate STEM instruction into varied disciplines within the curriculum. One approach is to teach engineering and design processes and then develop engineering challenges for your students.

At the University of Missouri’s Elementary Engineering Academy, you will learn how to create projects that teach problem solving and encourage students to apply STEM principles to any challenge in any discipline.

... Create projects that teach problem solving and encourage students to apply STEM...
Join us for a two-day workshop on how to integrate STEM concepts into an afterschool robotics program!

**Friday, October 20, 2017**

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<th>Time</th>
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| 6pm – 7pm  | Introduction  
Dinner Provided  
Elementary Engineering Academy - Satish Nair and Steve Devlin                  | Lafferre Hall C1249   |
| 7pm – 8:30pm | TECH4K5 – A Neuro-LEGO after-school program  
Teachers begin building their first LEGO robot in teams | Lafferre Hall C1249   |

Saturday, October 21, 2017

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| 8:30am – 9am | Breakfast  
Continental Breakfast                                                                  | Lafferre Hall C1249   |
| 9am – 11am | How to run a TECH4K5 LEGO robotics program  
LEGO lessons – Intro. to EV3 Programming  
Intro. to sensors – touch, sound, rotation,… - Ben Latimer, Martha Gahl, and In Han Kim | Lafferre Hall C1249   |
| 11am – 12pm | Experiences of TECH4K5 teachers                                                                 | Lafferre Hall C1249   |
| 12pm – 1pm | Lunch Break                                                                                 | Lafferre Hall C1249   |
| 1pm – 3pm  | Introducing neuro- and human- context into robotics  
LEGO lessons – Neuro-Touch, Neuro-Distance, The Brain is a computer, Light Sensor Programming - - Ben Latimer, Martha Gahl, and In Han Kim | Lafferre Hall C1249   |
| 3pm – 5pm  | **Planning and resources** for conducting TECH4K5 programs at your school – Univ of Missouri will cover all costs, including stipend for the teacher | Lafferre Hall C1249   |

To rural and title-1 schools, we will provide 10 LEGO kits free. During Year 1, we will also pay a stipend to the teacher + $10/hr to one mentor for participating in TECH4K5.