



# Research Opportunity

**California University of Pennsylvania in a partnership with Carnegie Mellon is looking for teachers that are interested in being part of a NSF funded research project.**

**To participate: one Math & one Technology Education teacher in Middle School must agree to collaborate in the study.**

The basis of the study is to research how robotics can be used as a cross discipline organizer to teach STEM education; our focus will be mathematics and technology education. Our study will measure student's attitudes toward STEM content and careers before and after the robotics experience. The research focus is at the middle school level and requires a mathematics and technology education teacher to agree to participate in the study. The teachers will be asked to collaboratively teach using the Lego NXT Mindstorm robots and fundamental robotic principles at the content organizer. The students will be assigned a design problem which requires the employment of mathematics and engineering principles for a successful solution. Interested teachers who want more details on the study please contact Mr. Stephen Whitehead at California University of Pennsylvania 724-938-4060 or via email [whitehead@calu.edu](mailto:whitehead@calu.edu)

Participants will receive:

- ✓ ACT 48 Credits
- ✓ Teacher training emphasizing robotic content
- ✓ Payment for participating

Value

\$750

Provided to the teacher\*\*:

- ✓ Curriculum software
- ✓ Lego NXT Robotics Sets

\$300

\*\* We have 10 NXT robots to give to the first 10 teachers that sign up for the study (one robot per teacher).

Questions – Please contact Stephen Whitehead  
[whitehead@calu.edu](mailto:whitehead@calu.edu) or 724-938-4060