



Nov 21-22, 2015

# 2015 Fall Academy for Integrated Computing and STEM Education

Robotics can easily excite and engage students in learning science, technology, engineering, and math (STEM) concepts. The UC Davis C-STEM Center and its industrial partners have developed an innovative modular robotics technology called Linkbot for integrating computing, robotics, and engineering into K-12 math and science education. Linkbot is designed as a building block. A single Linkbot module is a fully functional four-degrees-of-freedom modular robot, allowing a Linkbot to perform a multitude of novel robot locomotion, as well as other various geometries for different applications by combining multiple Linkbots.

This C-STEM Fall Academy provides professional development for math/technology/engineering/science teachers with the cutting-edge robotics and teaching technology to engage students in critical thinking and collaborative learning for math, science, and engineering subjects, utilizing 21st century career skills. The academy will train teachers with computer-aided problem solving applications using a user-friendly C/C++ interpreter Ch and Linkbot to integrate computing and robotics into STEM classrooms and afterschool programs.

This Fall Academy will also address middle and high school math classes emphasizing algebraic and computational thinking through solving real-world problems. Using a sequence of well-designed simple, concise, and self-contained sessions with hands-on computing and robotics activities, Common Core based algebraic concepts will be reinforced through practical applications.

## Registration:

Registration at:

[http://c-stem.ucdavis.edu/training/fall\\_academy/](http://c-stem.ucdavis.edu/training/fall_academy/)

**\$300 before October 23, 2015**

**\$400 before November 13, 2015**

**Location:** @ 1062 Bainer Hall, UC Davis campus

Registration covers instruction, a textbook, a software license for teaching. No refund after instruction begins. If you wish to purchase Linkbots, it is \$399 plus tax per pair.

For more information, please contact Heidi Espindola, the C-STEM Program Manager at: [info@c-stem.ucdavis.edu](mailto:info@c-stem.ucdavis.edu) or (530) 752-9082 or visit: <http://c-stem.ucdavis.edu>