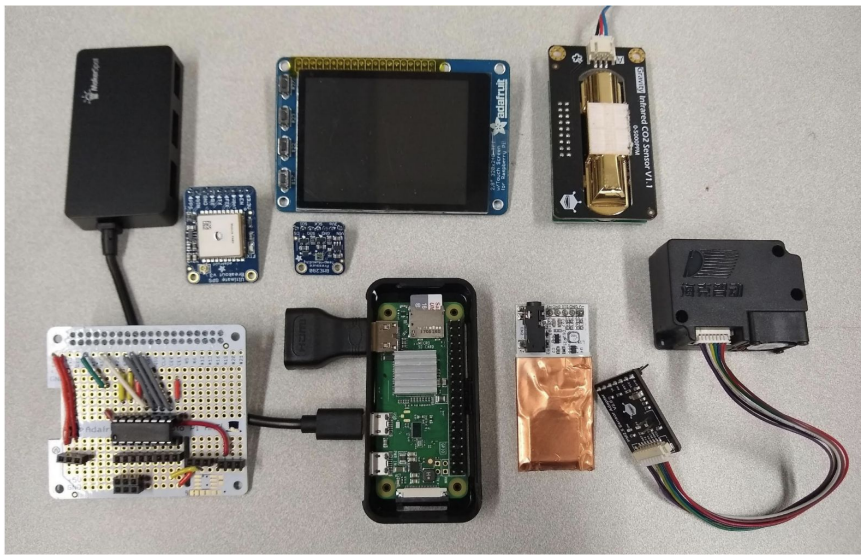
A HANDS-ON INTRODUCTION TO RADIATION DETECTION:

Getting to Know Our Radioactive World

- **BUILD** YOUR OWN NUCLEAR RADIATION DETECTOR
- **IDENTIFY** REAL-WORLD EXAMPLES OF RADIATION IN OUR ENVIRONMENT
- **DEVELOP** BASIC PROGRAMMING AND DATA ANALYSIS SKILLS



NEW COURSE that integrates a variety of subject areas - from computer science, programming and statistics, nuclear science and more. The course will contain three sections: an introduction to how radiation interacts with matter and radiation detection technologies; development of the tools (mathematical and computational) needed for analyzing various types of radiation and environmental data; and building of a basic radiation sensor system.

LECTURES AND LABS allow students to gain an understanding of basic concepts in radiation detection and radioactivity, electrical circuits, and data analytics.

For more info: https://engineering-11.github.io/Engin-11/
Course Number: ENGIN 11
Class Times: Tues. 9:30 - 11 AM in Evans RM 41,
Lab Section: Wed. 2 - 4 PM in Life Sciences RM 2062
Class size is limited to 20 students

Course will be taught by the lead Project Scientist running RadWatch and DoseNet outreach efforts, whose aim is to build understanding of radiation in the environment.

Berkeley RadWatch

DoseNet

radwatch.berkeley.edu

radwatch.berkeley.edu/dosenet/map