Materials Research Science and Engineering Center (UW MRSEC)

Research-Inspired Education and Outreach
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Create and disperse Research-Inspired Education Resources
We are uniquely positioned to collaborate with researchers working at the leading edge of materials science to develop research-inspired content. These collaborative efforts ensure our activities are both state-of-the art and scientifically accurate. We strive to make resources that are hands-on, inquiry based and aligned to the Next Generation Science Standards.

Broaden participation of people underrepresented in science and engineering
To broaden participation in STEM, we take advantage of research, education, and industry synergies. We create audience specific efforts to engage people throughout the pipeline.

Our Vision
To excite people of all ages and backgrounds about science and engineering and encourage them to pursue careers in these fields.

Professional development at all stages of science and engineering education
We strive to provide educators, postdoctoral associates, and graduate students exposure to the soft skills that will be necessary for their future careers.

At the Breakthrough Research and Education Workshop, UW MRSEC scientists brainstorm to create educational materials based on the larger concepts of their research
A representative sample of the activities developed in over 15 years of creating education modules
Dissemination of our resources takes place through outreach events, education kits, and our website: education.mrsec.wisc.edu

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(Clockwise from top left) The UW MRSEC participates in teacher professional development, leverages industry partnerships, connects the community to create diversity-focused outreach events, and coordinates an Research Experience for Undergraduates (REU) program.

(Clockwise from top left) The UW MRSEC organizes professional development seminars for students, coordinates a Research Experiences for Teachers (RET) program, leads a course on using improv to improve science communication skills, and creates a culture of engaging the general public through community outreach.