

# STEM IN THE LAB

innovate. explore. discover.



## OUR MISSION

INL's K-12 STEM Program works to inspire Idaho's future STEM workforce, impact students, teachers and families by integrating best practices in STEM education, and empower employees to become STEM mentors to transform K-12 STEM into a driver for innovation.

## STEM IN ACTION



### NUCLEAR REACTOR CANDY MODEL

*Commercial nuclear reactors are primarily used for electricity generation through Uranium-235 fuel pellets. At INL, the Advanced Test Reactor is the only U.S research reactor that studies the results of intense radiation on reactor materials and fuels for government and privately sponsored research. The unique serpentine core, as seen on the candy model allow the reactor to conduct many experiments at the same time.*

### TRY THIS AT HOME

*Make your own fission demonstration by using a couple simple materials, like a twisting balloon, marker, and scissors. Fission is the release of energy by splitting nuclei, such as Uranium-235 and Plutonium- 239. This activity helps visualize and model what is meant by nuclear fission. To learn more about the activity, visit <http://nuclearconnect.org/in-the-classroom/for-teachers/what-is-fission>.*

## CAREERS IN STEM

### BUILDING STEM SKILLS

*If you enjoy the challenge of learning new things, understanding how things work, and solving problems, a career in STEM could be your future! At INL, engineers are working on developing batteries for next generation concepts and working with automobile makers to advance energy storage technologies. Electric vehicles are considered clean energy or renewable energy, which means the emissions from the car do not pollute our air or water. Visit us and learn more about the careers that await you.*

### STUDENTS + PARENTS + EDUCATORS

*For information on grants, training and student opportunities; curriculum ideas and resources, please visit us at: [stem.inl.gov](http://stem.inl.gov).*

