STEM Education at DRI
ABOUT US

We excel in basic and applied research and the application of technologies to improve people's lives throughout Nevada and the world. We implement this mission by fostering scientific and engineering talent. We apply scientific understanding to the effective management of natural resources while meeting Nevada's needs for economic diversification and science-based educational opportunities.
Sparking Curiosity - Through real-world STEM
DRI STEM Stream

**What is the STEM Stream?** A career-long and lifelong continuum for STEM research, education, and application. This continuum consists of interactive learning opportunities that support individuals to exit and re-enter the STEM knowledge economy and workforce.

![Diagram showing the STEM Stream with levels: K-12 Education, Higher Education, Career Prep & Re-entry, Professional Development, Lifelong Learning. Each level has a description: Train educators in STEM content and provide classroom activities and supplies, Research opportunities supporting critical transitions to the STEM sector, Skills development and academic understanding for the STEM workforce, Targeted upskilling for professionals already integrated into the workforce, Foster engagement, curiosity, and inquiry for all learners.]

Desert Research Institute (DRI)
Create pathways for lifelong learning through quality research focused learning experiences and environments.

Foster interest in STEM and the research and education missions of DRI.

Support Nevada’s economic development and emerging industries through experiential learning opportunities for a STEM workforce.
Hands-on inquiry based lessons used for classroom integration.

Connections for faculty to the classroom and help with special projects.

We host open houses, attend community events, and conferences.

Wide variety of teacher PD offered throughout the state.

Students reached 2015-16 school year

Teachers trained 2015-16
Green Boxes

Materials
All the materials to do the lessons; including consumable and non-consumable.

Diverse Populations
Title 1 schools, demographics of students, rural and tribal locations

Hands-On
Inquiry based STEM that is designed to be hands on.

Academic Standards
Aligned to the Next Generation Science Standards and in the 5E model.

FREE
Grants, contracts, and gifts make these available to teachers at no cost.

High Demand
We have over 100 Green Boxes that go out quarterly during the school year and they are 80% checked out already.
Undergraduate Student Internship

- Applied for the UNR Pack Internship for two students to work with our K-12 programs.
- Looking for two students in the STEM disciplines

- Reviewed Green Boxes- strengthening their STEM content knowledge
- Design their own STEM education hands on experiments
- Help with teacher PD, outreach events, school events
Graduate Student Content Expert Program

What
We are interested in proving graduate students will valuable experience in teaching, science communication, and public outreach.

Why
- Build your teaching experience for their CV
- Help Nevada school children understand STEM
- Make a broader impact with your research
- Gain greater recognition for DRI science in the local community
First Year:

2015-2016: Successful. Students deemed it a worthwhile experience. Some students wanted to engage and do more—create a Green Box, do a special project with a school—which we were not able to accommodate.
Thank you

Amelia Gulling
K-12 STEM Manager
Desert Research Institute
775.673.7412
agulling@dri.edu