



NOVA77 STEM WORKSHOP

# Engaging Youth in NASA Space Science Imaging

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Photos and student-generated images of Mars on display at Clark County Library Art Gallery  
Credits: NOVA 77

This project leverages the unique appeal of NASA images, NASA-funded cutting-edge analytic facilities at the University of Nevada, Las Vegas, and artificial intelligence (AI), to create a set of interconnected programs, exhibits and authentic learning experiences, focused on imaging of Martian landscapes and meteorites, for the 8th-12th grade students of Southern Nevada, particularly those from groups underrepresented and underserved in STEM. Students will explore the planetary features of Mars by examining HiRISE images, use the University facilities to generate a Martian meteorite's elemental map, and participate in

a Martian Craters Challenge by building a HiRISE Martian crater image dataset and using AI to generate photorealistic crater images. The project will foster collaboration and learning between researchers, teachers and students. Students' posters and virtual exhibits will be displayed at a range of public and professional venues.

## List of Partners:

- Clark County School District
- University of Nevada, Las Vegas
- Clark County Library District
- Clark Country Library Art Gallery

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