# Park Ranger Holograms

Background:

Across the USACE Enterprise, Visitor Centers are going through continual budget cuts. New Innovations is needed where Park Rangers can do more with their time through interpretation. The idea of Park Ranger Holograms will allow pre-recorded Holograms to welcome guests to the Visitor Centers and even Interpret to visitors through large bay windows. With this technology, it would free up rangers to create other interpretive visitor experiences in their Visitor Centers, being able to utilize this technology.

Project Description:

Students working on this project will need to figure out a gauntlet of issues including what levels of transparency work in what levels of lighting, what projects color schemes and equipment would work best, and simply figuring out both how the hologram would work best and how the device would interact with the public. We are looking for two prototypes on this Innovation, one a simple welcome desk hologram to greet visitors and introduce them to the Visitor Center, and then a second upstairs hologram that looks out the large bay window at the lock and interprets there as well upon activation. Examples are listed below but are not limited to just that lighting scheme or those area conditions:
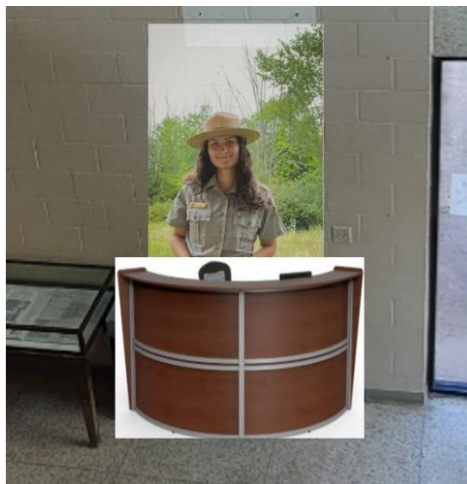
Downstairs Welcome Desk

Upstairs Interpretive Center

Our Team current has the technology and green screen to record the videos for the holograms, but we do not have much past that point. We will be writing the scripts and the language needed for the Hologram recordings.

Outcome:

Students will be working along side our Innovations subteam for this innovation and will get to work with a professional federal agency. The students are expected to figure out how the process works and how to adjust and replicate. The goal is to be able to pilot this technology in at least one Visitor Center over the FY 2022 summer months. Students will need to handle all coding and software. Our Innovations Subteam will provide direction, shoot videos on green screen in March (FY22), and provide equipment needed for this Innovation to work in a Visitor Center based on the recommendations of the UC Davis Student Team (projectors, TV monitor, etc.).