Argonne National Laboratory

"We started looking for solutions on how to bring people to the beamlines without actually traveling and meeting with us. When I learned about the HoloLens, I really got excited about the possibility."

– Olaf Borkiewicz, Lead Beamline Scientist, Advanced Photon Source

Key Products and Services

Microsoft HoloLens

Dynamics 365 Remote Assist

Dynamics 365 Guides

Situation

Argonne National Laboratory (ANL) is a U.S. Department of Energy research institution, home to an X-ray light source facility called the Advanced Photon Source (APS). The onset of the COVID-19 pandemic challenged collaboration, as the ~5,500 researchers who visit APS annually were not able to enter.

Solution

ANL turned to HoloLens to provide off-site researchers with virtual access to the APS. Scientists wear HoloLens during experiments, giving virtual viewers a first-person POV of the process and allowing for remote collaboration.

Impact

Since implementing HoloLens, the team has continued its collaborative research. ANL also is exploring the use of HoloLens to train technicians working on the upgrade of APS. Scientists see the potential of HoloLens applications that have yet to be explored.