



*The Office of Research for Medical Students*

### Research Project

#### Project Title:

Develop applications for Apple Vision Pro and Microsoft Hololens 2

**Date of request:** 06/30/2026

#### Contact Information

**Full Name:** Markus Lammle, MD

**Title:** CLINICAL ASSOC PR HS

**Department:** Radiology

**Phone number:** 315 464 7029

**Office:** UH 3523

**Email:** lammlem@upstate.edu

**Resident?** No

### Research Project

The Apple Vision Pro and Microsoft Hololens 2 are fully programmable devices. We are looking to explore the technique and develop custom apps for spatial computing environment using Apple,Âs and Micfosoft's standard development tools and frameworks.

**Research Location:** Upstate Medical

**Tele-research/remote opportunity?** Yes

**Will it require student to be physically present in the research location:** No

**Type of research:** Computational

**Summer project?** Yes

**Long-term project:** Yes

**Availability required to work on your project(s):**

Flexible. Short term, summer and long term.

**Prior experience or specific skills required to work on your project(s):**

- Interest in 3D imaging, virtual and holographic visualization.
- Interest in working with Microsoft Hololens 2 and Apple Vision Pro.
- Interest or experience in Xcode, SwiftUI, RealityKit, Mixed Reality Toolkit (MRTK), Unreal Engine, Visual Studio, or Unity to build 3D experiences.