

## AeroSafe Shield™

*From Visioneering Bio Design, LLC:*

Kuprion is collaborating with Visioneering and the Ohio State University Center for Design Excellence and Manufacturing for antimicrobial testing of Kuprion's ActiveCopper™ coated on Visioneering's AeroSafe Shield™ filters.

Kuprion's ActiveCopper technology is based on work that began at Lockheed Martin in 2008. Kuprion applied 12 years of development and breakthroughs, including 20+ patents, to fight COVID-19. In March 2020, with the onset of the COVID-19 pandemic, Kuprion, with the help of the Defense Innovation Unit of the DoD, began testing the efficacy of ActiveCopper™ as an antimicrobial to help combat the SARS-CoV-2 virus and a number of other viruses and bacteria at government recommended labs.

Visioneering Bio Design aims to protect healthcare providers from Covid-19 by containing the aerosol of the patient, thereby minimizing its spread at the source. AeroSafe is a containment device, vacuum molded in a lightweight medical-grade (PET-G), transparent, hard plastic that fits over the patient's head, neck, and upper chest area while they are lying in a hospital bed. It has three large hand ports sealed by flexible Nitrile FDA food-grade rubber membranes for access and an intubation port. It is one continuous unit without joints or crevices for easier cleaning and sanitizing. A non-electrical filtration system effectively "scrubs" the infectious aerosol with a proprietary advanced N95 filter media, returning aerosol into the atmosphere cleaner than it began. Moreover, implementing AeroSafe shields in hospitals will lower the risk of aerosol contamination to family members and loved ones. Following the pandemic, this shield will continue to reduce the risk of spread and the cost of treatment for infectious disease in medical facilities.

Visioneering Bio Design, LLC

Ty Bryant

CEO, President

614-732-3049

[tybryant2@gmail.com](mailto:tybryant2@gmail.com)



**THE OHIO STATE UNIVERSITY**

COLLEGE OF ENGINEERING

CDME.OSU.EDU