

# 2020

Nanook Award

## University of Alaska Fairbanks Invention Disclosure

### Personal Protective Equipment Mask: Emission Testing Method- ology

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*Inventors:*

Orion Lawlor and Dayne Broderson

- Developed by Dr. Orion Lawlor, UAF College of Engineering and Mines, and Mr. Dayne Broderson, UAF Alaska Center for Energy and Power.
- Enhanced PPE testing method to introduce emissions and test fit and fabric.
- Three-dimensional model developed to mount and test masks and quantitatively measure particle emission during respiration.
- Developed as part of Immediate Innovation for Coronavirus Project, with funding support from University of Alaska Center for Innovation, Commercialization, and Entrepreneurship and Office of Naval Research .



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