

## **FACULTY DEVELOPMENT ENDOWMENT FUNDS**

Faculty Research Fund

**Award Date:** Spring 2018

**Proposal Title:** App Development and Data Acquisition for Best Practices in Crop Burning

**Principal Investigator:** Joe Ford

College of Liberal Arts and Communication

Department of Art and Design

### **ABSTRACT**

The objective of this project is to create a local proof-of-concept for a mobile application to assist farmers in the burning of croplands using best practices that minimize air pollution in population centers. This project would capitalize on atmospheric data by the National Weather Service (NWS) in Memphis, NASA satellite imagery, and sounding balloons.

Faculty and students involved in the project will be visiting the NASA Ames Research Facility, Google, Apple, and Stanford's d.school to discuss our project with professionals at the highest levels of the software research and development fields. This trip is both a requirement of the NASA/ASGC grant and a valuable outreach and learning opportunity

A secondary goal of the project will be to set up an App Development Lab in the Library 205 classroom to facilitate a more flexible, tech industry-like space.

FRAC funds would be used to supplement travel costs to NASA's Ames Research Center as well as materials to make the Digital Design Lab in Dean B Ellis Library (room 205) more conducive to this particular project.