

Attachment 1 – DAGSI Research Topic Template

NOTE: Under the Cooperative Agreement, Technical Directorates have three options for topics. First, a topic can strictly be considered in the pool for the state allocation of funding. DASI will work across the TDs for this allocation. Second, the TD can be prepared to be a funding partner with the State of Ohio. This would include: providing additional funds to support additional recipients of a topic, or expand the proposers team to include additional members on a topic. Third, the TD may elect to fully fund a topic not selected for State of Ohio funding or to pursue University teams outside the State of Ohio. Contact Michael.hitchcock.3@us.af.mil for questions

1. **Research Title:** Phosphate oxide based glasses as UV emitter hosts
2. **Individual Sponsor:** List the AFRL research topic sponsor's contact information

Example:

AFRL/RXA
 Attn: Dr. Jonathan Goldstein
 2179 12th St., B652/R122
 WPAFB, OH 45433-7718
Research.Topic@us.af.mil

3. **Academic Area/Field and Education Level**

Example:

Materials Science and Engineering, or Electrical Engineering, with expertise in Oxide glass science and technology (MS or PhD level)

4. **Objectives:** Explore photoluminescence efficiencies of different activator and sensitizer concentrations, as a function of glass composition.
5. **Description:** An opportunity exists to explore the combination of phosphate glasses of high UV transparency, with UV-emitting activators, and sensitizers. As an optical materials engineering problem, this is an opportunity for practical application of phosphate glass engineering and the theory of luminescence.
6. **Research Classification/Restrictions:** US Citizenship is a requirement.
7. **Eligible Research Institutions:** University of Cincinnati

NOTE: Topics submitted to DAGSI must be approved for public release. Need PA Approval #