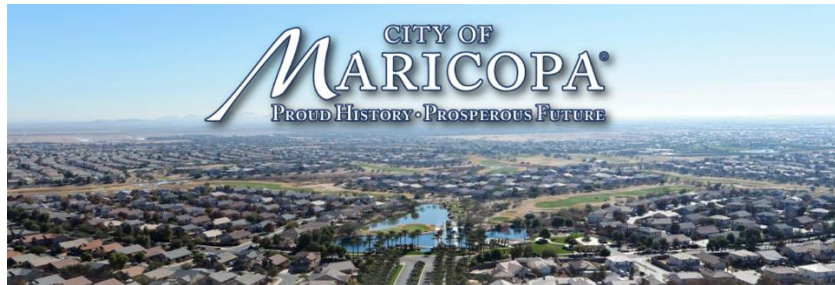


City of Maricopa and Arizona State University Partnership



May 22, 2018

Arizona Board of Regents for and on behalf of

**Arizona State University
Office of Research & Sponsored Projects Administration
P.O. Box 873503
Tempe, Arizona 85287-5303**



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Proposing Agency: Arizona Board of Regents for and on behalf of
Arizona State University
Office of Research & Sponsored Projects Administration
P.O. Box 873503
Tempe, Arizona 85287-5303

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Date of Submission: May 22, 2018

Starting Date: July 1, 2018

Proposed duration: Five years per Intergovernmental Agreement Terms



OVERVIEW

During the past year, several meetings between City of Maricopa Public Works employees and Arizona State University faculty identified several potential areas of collaboration between the City and ASU. Both would like to establish a master Intergovernmental Agreement (IGA) to share a common interest in advancing pavements evaluation and technical needs for public works and engineering.

While the IGA identifies a partnership, which includes the exchange of money and services, the general scope of work below defines the types of services the City may receive; however, the IGA also allows for unforeseen services that can be identified by the City in the future. Once the IGA is established a separate process will take place to establish a Purchase Order (PO). A PO will be bound by a term (duration), a scope, and a fee.

IGA SCOPE OF WORK

For the purpose of starting the IGA, the general scope of work will include two main activities as follows:

1. Develop a sampling and testing plan for typical City of Maricopa asphalt mixtures to characterize their engineering properties, assess the quality of asphalt mixtures currently used by the City, and to identify whether improvements to mixture designs are warranted. The plan may include sampling three to six mixtures per year over the next five years
2. Provide pavement management services support in implementing the City's current pavement management system including road condition data collection and developing road maintenance programs to address current and future needs. ASU will assist the City in developing multi-year maintenance programs, identify areas and maintenance practices that need improvement, develop future data collection plans, and prepare any needed maps, summary reports, or presentations of the findings.

FACILITIES AND EQUIPMENT

ASU is a world-class university with state-of-the-art facilities for education and research. The Advanced Pavement Laboratory (APL) at ASU is a state-of-the-art facility that provides full capability for characterizing asphalt concrete mixtures, unbound materials, and complete asphalt binder characterization. The APL is considered one of the best and most advanced laboratories in the United States.

QUALIFICATIONS

ASU is in the forefront in the areas of HMA mix design, material characterization, laboratory testing, simple performance test, material aging, mechanistic pavement design, practical applications, pavement performance and evaluation, field verification, and statistical analysis.

The Principal Investigator, Dr. Kaloush, is a registered Professional Engineer, and has over 30 years of experience in pavement research and management services. His areas of expertise include pavement materials design, thermal properties, advanced laboratory testing, field performance evaluation, and pavement management systems.

<https://isearch.asu.edu/profile/229715>