Grant Deliverables and Reporting Requirements for UTC Grants

| **UTC Project Information** | |
|---|---|
| Project Title | Smart Sensors to Reduce Pollutant Emissions in Transportation |
| University | The University of Texas at El Paso |
| Principal Investigator | Ramana Chintalapalle |
| PI Contact Information | rvchintalapalle@utep.edu<br>915-747-8690 |
| Funding Source(s) and Amounts Provided (by each agency or organization) | USDOT: $60,000<br>UTEP: $46,070 |
| Total Project Cost | $106,070 |
| Agency ID or Contract Number | Sponsor Source: Federal Government CFDA #: 20.701<br>Agreement ID: 69A3551747119 |
| Start and End Dates | Start date: 1/16/2018<br>End date: 2/15/2019 |
| Brief Description of Research Project | Today's automobiles lack flexibility in design and contributes to the major portion of the pollution. This project intended to design, develop, characterize, and demonstrate the feasibility of smart sensors for utilization in advanced transportation and reduce pollution. The project objectives are: (1) To fabricate oxygen sensors for combustion engines, (2) Demonstrate the temperature independent and smart characteristic features of sensors for emission control and fuel efficiency in transportation systems. The work will be performed at the University of Texas at El Paso. This is the first 10 months of a multi-year project. The methodologies to be developed are expected to be applicable in a broader context of CTECH. |
| Describe Implementation of Research Outcomes (or why not implemented)<br><br>Place Any Photos Here | |

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| Impacts/Benefits of Implementation (actual, not anticipated) | |
| Web Links<br><br>• Reports<br><br>• Project website | |