

Technical Evaluation Committee (TEC) Questionnaire

Instructions

- The Technical Evaluation Committee (TEC) Questionnaire shall be used for professional services related to architecture, engineering, or survey projects.
- **The TEC Questionnaire should be completely filled out. Complete and attach ALL sections. Insert “N/A” or “None” if a section does not apply or if there is no information to provide.**
- Questionnaire must be signed by an authorized representative of the Firm. Failure to sign the questionnaire shall result in disqualification of proposer pursuant to J.P. Code of Ordinances Sec. 2-928.
- All subcontractors must be listed in the appropriate section of the Questionnaire. Each subcontractor must provide a complete copy of the TEC Questionnaire, applicable licenses, and any other information required by the advertisement. Failure to provide the subcontractors' complete questionnaire(s), applicable licenses, and any other information required by the advertisement shall result in disqualification of proposer pursuant to J.P. Code of Ordinances Sec. 2-928.
- If additional pages are needed, attach them to the questionnaire and include all applicable information that is required by the questionnaire.

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

B. Firm Name & Address:

C. Name, title and contact information of Principal, as defined in Section 2-926 of the Jefferson Parish Code of Ordinances, who is a registered, licensed architect, professional engineer, or surveyor in the State of Louisiana:

D. Name and contact information of employee who is a registered and licensed architect, professional engineer, or surveyor in the State of Louisiana in the applicable discipline. A subcontractor may be substituted here only if the advertised Project requires more than one discipline.

E. Please provide the number of employees whose primary function corresponds with each category:

<input type="checkbox"/> Administrative	<input type="checkbox"/> Estimators	<input type="checkbox"/> Specification Writers
<input type="checkbox"/> Architects (Licensed)	<input type="checkbox"/> Geologists	<input type="checkbox"/> Structural Engineers
<input type="checkbox"/> Chemical Engineers	<input type="checkbox"/> Geotechnical Engineers	<input type="checkbox"/> Graduate Engineers
<input type="checkbox"/> Civil Engineers	<input type="checkbox"/> Interior Designers	<input type="checkbox"/> Project Managers
<input type="checkbox"/> Construction Inspectors	<input type="checkbox"/> Landscape Architects	<input type="checkbox"/> Clerical
<input type="checkbox"/> Ecologists	<input type="checkbox"/> Land Surveyor	<input type="checkbox"/> Grant/Funding Specialist
<input type="checkbox"/> Electrical Engineers	<input type="checkbox"/> Mechanical Engineers	<input type="checkbox"/> Sanitary Engineers
<input type="checkbox"/> Engineer Intern	<input type="checkbox"/> Environmental Engineers	
<input type="checkbox"/> Professional Land Surveyors		___ TOTAL

F. Is this submittal by a JOINT-VENTURE? Please check: YES NO

If marked "No" skip to Section I. If marked "yes" complete Sections G-H.

TEC Professional Services Questionnaire

G. If submittal is by JOINT-VENTURE, list the firms participating and outline specific areas of responsibility (including administrative, technical, and financial) for each firm. Please attach additional pages if necessary.

1.

2.

H. Has this JOINT-VENTURE previously worked together? Please check:
YES NO

I. List all subcontractors anticipated for this Project. Please note that all subcontractors must submit a fully completed copy of this questionnaire, applicable licenses, and any other information required by the advertisement. See Jefferson Parish Code of Ordinances, Sec. 2-928(a)(3). Please attach additional pages if necessary.

Name & Address:	Specialty:	Worked with Firm Before (Yes or No):
1.		
2.		
3.		

J. Please specify the total number of support personnel that may assist in the completion of this Project:

TEC Professional Services Questionnaire

K. List the professional in charge, key persons, specialists, and individual consultants anticipated for this Project and provide their relevant information below. If necessary, please attach additional documentation (i.e. resume) that demonstrates the employment history and experience of the Firm's key persons that may assist in the completion of this Project. Please attach additional pages if necessary.

PROFESSIONAL IN CHARGE OF PROJECT:

Name & Title:

Project Assignment:

Name of Firm with which associated:

Years' experience with this Firm:

Education: Degree(s)/Year/Specialization:

Active registration: Year first registered/discipline:

Other experience and qualifications relevant to the proposed Project:

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
Project Assignment:	
Name of Firm with which associated:	
Years' experience with this Firm:	
Education: Degree(s)/Year/Specialization:	
Active registration: Year first registered/discipline:	
Other experience and qualifications relevant to the proposed Project:	

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Project Assignment:
Name of Firm with which associated:
Years' experience with this Firm:
Education: Degree(s)/Year/Specialization:
Active registration: Year first registered/discipline:
Other experience and qualifications relevant to the proposed Project:

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Project Assignment:
Name of Firm with which associated:
Years' experience with this Firm:
Education: Degree(s)/Year/Specialization:
Active registration: Year first registered/discipline:
Other experience and qualifications relevant to the proposed Project:

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Project Assignment:
Name of Firm with which associated:
Years' experience with this Firm:
Education: Degree(s)/Year/Specialization:
Active registration: Year first registered/discipline:
Other experience and qualifications relevant to the proposed Project:

TEC Professional Services Questionnaire

L. Work by Firm or Joint-Venture members which best illustrates current qualifications relevant to this Project. Please include any and all work performed for Jefferson Parish. Please attach additional pages if necessary.

PROJECT NO. 1

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:

PROJECT NO. 2

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:

TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility	
Completion Date (Actual or estimated)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:

PROJECT NO. 4		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:

TEC Professional Services Questionnaire

PROJECT NO. 5		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:

PROJECT NO. 6		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:

TEC Professional Services Questionnaire

PROJECT NO. 7		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:

PROJECT NO. 8		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:

TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:

PROJECT NO. 10		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:

TEC Professional Services Questionnaire

M. List all prior and/or on-going litigation between Firm and Jefferson Parish. Please attach additional pages if necessary.

Parties:		Status/Result of Case:
Plaintiff:	Defendant:	
1. N/A		
2.		
3.		
4.		

N. Use this space to provide any additional information or description of resources supporting Firm's qualifications for the proposed project.

ARA has extensive experience with pavement inspection, testing, and design projects. We work with local, county, state, and federal clients within California and all over the United States. In the table to the right, it is shown that ARA performed 66 pavement evaluation projects throughout the nation on average for the past 10 years, while hitting an all-time high of 171 in 2020. Our records show more than 10 years of direct pavement and ROW assessment projects and successful 3rd part software integration. ARA is fortunate to employ a technical staff with excellent academic qualifications and work experience. ARA's Transportation Sector currently consists of over 170 professional, technical, and administrative staff, including 102 engineers and scientists, and 50 technicians. The majority of our professional staff have graduate-level degrees (either Masters or Doctorate) and we have 47 registered Professional Engineers. In addition, we are fortunate to retain staff with many years of service dedicated to the collection, analysis, and reporting of pavement and roadway asset data. For example, the ARA key personnel staff included on this project team have a combined total of 97 years of experience in the pavements industry.

ARA has the largest and most extensive fleet of mobile pavement testing equipments (e.g., pavement condition, asset collection, structural testing, function testing), including:

- 4 falling weight deflectometers and 4 heavy weight deflectometers
- 3 GPR units—air launched, ground-coupled, and 3D
- A pavement coring and augering rig, and Dynamic Cone Penetrometer (DCP)
- 8 Digital Survey Vehicles for high-speed roadway imagery collection
- 2 locked-wheel friction trailers and 2 vehicle-mounted runway friction testers
- 1 handheld and 2 mobile retroreflectometer units (MRUs)
- 2 Magnetic Image Tomography (MITScan) units

All of our equipment is operated, maintained, and routinely calibrated by trained staff, and we analyze all of our own data.

O. To the best of my knowledge, the foregoing is an accurate statement of facts.

Signature: 

Print Name: William R. Vavrik, Ph.D., P.E.

Title: Transportation & Infrastructure Sector Manager

Date: 02/07/2024

Timothy Parsons, PE

PRINCIPAL CIVIL ENGINEER II



ROLE

Project Manager

YEARS OF EXPERIENCE

22

YEARS AT ARA

22

EDUCATION

M.S., Civil Engineering,
University of Oklahoma,
2001

B.E., Civil Engineering,
University of Oklahoma

LICENSE & REGISTRATION

PE Louisiana #0038933

PROFESSIONAL AFFILIATIONS

► Member, ASCE

AREAS OF EXPERTISE

- Highway and Airfield Pavement Management
- Automated Pavement Condition Evaluation
- Structural Pavement Evaluation (HWD & GPR)
- Airfield and Highway Pavement Design
- Software Development
- Accelerated Pavement Testing (APT)
- Construction Inspection

Mr. Parsons a Principal Engineer with ARA. He has extensive experience conducting and managing pavement management system implementations for roads and airfields using both foot-on-ground and automated methods. He is currently the project principal for development of the Federal Aviation Administration pavement management software and he oversees development of their roughness software.

SPECIFIC PROJECT EXPERIENCE

Mr. Gokhale served as the technical lead for development of FAA PAVEAIR, the Federal Aviation Administration pavement management system. Oversee PCI data collection for the FAA Extended Airfield Pavement Life project and development of PA40, a specialized version of PAVEAIR that also includes HWD, roughness, laboratory, traffic, and climate data. Performed PCI inspections and implemented MicroPAVER PMS on approximately 50 U.S. Air Force bases around the world, representing over 450 million square feet of airfield pavement and over 200 million square feet of road and parking lot pavement. Representative installations include Travis AFB, Osan AB, Randolph AFB, Malmstrom AFB, Dyess AFB, and Hurlburt AF (Eglin AFB). Implemented PMS for other organizations including the United States Marine Corps, Nashville-Davidson Metropolitan Department of Public Works (Cartegraph Pavementview GIS-integrated implementation using digital-image-based survey vehicles), the City of Dallas (Love Field), and the Department of National Defence (Canada). Developed in-house clarifications to ASTM D5340 to ensure consistency between surveys. Instructed engineers and technicians in PCI surveying through initial and annual training. Developed and taught PCI and MicroPAVER training course for clients. Implemented state-wide airport pavement management system for the State of Oklahoma.

PAVEMENT MANAGEMENT AND EVALUATION PROJECTS

Below is a list of similar projects that Mr. Parsons managed and worked on. This list is not comprehensive, and it only shows roads projects. Several other highway and airfield projects are conducted and not shown in this list.

2002 Vicksburg Roads	2005 Creech Roads
2003 Dover Roads	2005 Nellis Roads
2003 Malmstrom Roads	2006 Avon Park Roads
2003 Nashville Roads	2006 Holloman Roads
2004 Charleston Roads	2006 Scott Roads
2004 Grand Forks Roads	2006 Tonopah Roads
2004 MCAS Yuma Roads	2006 Vicksburg Roads
2004 Travis Roads	2012 Eareckson AS Roads
2005 Contra Costa County	2012 New Orleans

SALIL GOKHALE, PE

PRINCIPAL CIVIL ENGINEER I



ROLE

Assistant Project Manager

YEARS OF EXPERIENCE

26

YEARS AT ARA

10 (2001 to 2008, 2020 to present)

EDUCATION

M.S., Civil Engineering,
Pennsylvania State
University, 2001
B.E., Civil Engineering,
Govt. College of Eng., Pune,
India, 1998

LICENSE & REGISTRATION

PE Florida #66552
PE Texas #129345

PROFESSIONAL AFFILIATIONS

- ▶ Member, ASCE
- ▶ President, ATPIO
- ▶ Member, Indian Roads Congress
- ▶ Member, APWA

AREAS OF EXPERTISE

- ▶ Highway and Airfield Pavement Management
- ▶ Automated Pavement Condition Evaluation
- ▶ Structural pavement evaluation (FWD & GPR)
- ▶ Pavement design
- ▶ Friction testing
- ▶ Accelerated Pavement Testing (APT)

Mr. Gokhale an Associate Division Manager and Principal Engineer with ARA. He is a licensed engineer with more than 26 years of experience in pavement engineering and has extensive experience with highway and airfield pavement engineering and evaluation projects worldwide. His areas of expertise include implementation/updates of pavement management systems, automated and manual pavement condition surveys, non-destructive structural testing with the Falling Weight Deflectometer (F/HWD), Ground Penetrating Radar (GPR), GIS integration, pavement profile measurements, friction testing, and Accelerated Pavement Testing (APT). Mr. Gokhale has published more than 15 journal papers and technical reports and is a past member of the Transportation Research Board's standing committee on pavement monitoring and evaluation. He is based in Austin, Texas.

SPECIFIC PROJECT EXPERIENCE

Mr. Gokhale has extensive experience in managing pavement evaluation and management projects on highways and city/county roadways. Mr. Gokhale has vast experience in managing pavement evaluation and engineering projects for various agencies using 3D pavement imaging systems, non-destructive structural testing, profile measurements and friction testing. A partial listing of Mr. Gokhale's pavement management and evaluation projects is shown below.

PAVEMENT MANAGEMENT AND EVALUATION PROJECTS

- 3D LCMS data collection and reporting on more than 10,600 miles of State maintained roadways for the Florida Department of Transportation in support of HPMS reporting to FHWA.
- Visual distress surveys, pavement roughness measurements and pavement management system updates using StreetSaver®, Cartegraph and CRAB on more than 2,500 miles of roadways for Snohomish County, WA (2013-2017). The County opted for automated measurements from 2018 through 2022. Mr. Gokhale has been the project manager since its inception. New contract is in place at present for 2023-2028.
- Comprehensive pavement evaluation and design for Guam Route 1 and Route 3 Haul Road Network (2023)
- Pavement management system implementation and automated surveys for Howard County, MD on more than 1,450 miles of County maintained roads (2019, 2021, 2023)
- Pavement management system implementation and automated surveys on more than 950 lane miles in Clay County, Florida (2022)
- Automated distress data collection and pavement management system update for Arlington County, VA on more than 1,000 lane miles of County maintained roads (2019)
- Automated distress data collection and pavement management system update for City of Richmond, VA on more than 1,800 lane miles of City maintained roads (2019)
- Automated distress data collection, and pavement management system update for the City of Minneapolis, MN, on more than 1,600 lane miles of City streets and alleys. (2017)
- Evaluation of roadway conditions during pre- and post-construction phases of the Rover Pipeline project on more than 3,200 lane miles of rural roadways in Ohio, Michigan, West Virginia, and Pennsylvania. (2016-2018).
- Evaluation of roadway conditions during pre- and post-construction phases of the Enbridge Energy Flanagan South, Line 6B and Line 79 projects on more than 7,000 miles of rural County haul routes in Michigan, Illinois, Missouri, Kansas, and Oklahoma. (2013-2014).

PHILLIP R. DONOVAN Ph.D., P.E.

PRINCIPAL ENGINEER



ROLE

Assistant Project Manager

YEARS OF EXPERIENCE

28

YEARS AT ARA

4

EDUCATION

B.S., Civil Engineering,
United State Air Force
Academy, 1995

M.S., Civil Engineering, Civil
Engineering, University of
Washington, Seattle, WA,
1996

Ph.D., Civil Engineering,
University of Illinois at
Urbana-Champaign, 2009

LICENSE & REGISTRATION

PE – Wisconsin, No. 35794-6

PE – Colorado, No. 0047356

AREAS OF EXPERTISE

- Pavement Evaluation
- Pavement Design
- Pavement Management
System Implementation and
Optimization
- Pavement Life-Cycle Cost
Analysis
- Pavement Structural
Testing
- Road and Airport
Pavement Friction Testing

Dr. Phillip Donovan is a licensed engineer with more than 28 years of experience in civil and pavement engineering. He retired as a Lt. Colonel after 20 years of active duty with the US Air Force in 2015. He was a Civil Engineer for his entire military career and worked design, construction, and project management around the world. His final Air Force assignment was teaching geotechnical and pavement engineering at the US Air Force Academy. He has substantial experience in non-destructive testing (NDT) using the Falling Weight Deflectometer (FWD) and Heavy-Weight Deflectometer (HWD) and has extensive knowledge in pavement evaluation and design, pavement and asset management, and Geographic Information Systems (GIS).

EXPERIENCE

February 2020–present: Applied Research Associates, Inc.

August 2015–January 2020: Dynatest North America, Inc.

May 1995–July 2015: United State Air Force

SPECIFIC PROJECT EXPERIENCE

- **Project Management.** Dr. Donovan served as a project manager on several time-sensitive projects throughout his military career and knows how to organize and execute complex jobs on time and on budget. He has conducted Air Force civil engineering research in Florida, built dorms in South Korea, planned anti-terrorism construction in Hawaii, forecast construction requirements for expanded Air Force operations, coordinated large renovation projects at the Air Force Academy, and taught hands-on pavement construction from subgrade preparation to paving with asphalt. During a deployment to Afghanistan, Dr. Donovan evaluated all runway surfaces throughout the country. He has also helped design and implement rapid pavement repairs for deteriorating operational runways.

Dr. Donovan is currently the project manager for the PCI survey and implementation of the pavement management system for Riverside County (CA), Merced County (CA) Association of Governments, San Francisco, Fort Huachuca, Arizona, and Fort McCoy, Wisconsin using StreetSaver®. He is also the project manager for the linear segmentation, manual and automated PCI survey, and implementation of the PAVER system for the Naval Facilities Command for Naval Base Ventura County, Naval Support Activities Joint Base Anderson, Guam, Naval Base Guam, and Commander Fleet Activities Okinawa and Sasebo, Japan with over a thousand miles of asphalt and concrete roadways and parking lots to inspect and manage.

- **Friction Data Collection and Analysis.** Dr. Donovan is one of ARA's experts for managing friction data collection, processing, and reporting. He has completed friction projects for Caltrans; the South Dakota DOT; the auto proving grounds for Ford, Chrysler, and FT Techno; Las Vegas, NV; Montgomery and Foley, AL; and the Louisville, LeSueur City, MN, and White Cloud, MI airports.
- **Pavement Structural Data Collection and Analysis.** Dr. Donovan is responsible for project management, data collection, and structural data analysis using Dynatest's FWD and HWD equipment. He is working on or has completed projects for the Navy; the City of Portland, OR; the Los Angeles World Airports; and several cities throughout the US. He has also deployed a Heavy Weight Deflectometer to Tinian Island, which is north of Guam, to evaluate their harbor pavements in anticipation of the expansion of a marine training ground on Tinian.

ROBERT REUBEN WILLIAMS, PE, APMP

Principal Civil Engineer 1



ROLE

Data management
Expert/Project Engineer

YEARS OF EXPERIENCE

18

YEARS AT ARA

4

EDUCATION

► B.S., Civil Engineering,
The University of Texas
at El Paso, 2002

► M.S., Civil
Engineering, The
University of Texas at El
Paso,

LICENSE & REGISTRATION

PE—Texas, No. 100100
Project Management –
APMP, No. 167533 (IPMA
Level D)

AREAS OF EXPERTISE

- Pavement Engineering
- Pavement Design
- Geotechnical Engineering

Reuben Williams has been practicing as a consulting engineer since 2004, specializing in pavement engineering, management, and design as well as asset management for cities, counties, state agencies, and private entities. Mr. Williams has extensive experience in semi-automated pavement distress surveys to support network-level pavement management implementations for cities. Additionally, Mr. Williams has performed numerous structural evaluation projects incorporating falling weight deflectometer, ground penetrating radar, and traditional geotechnical engineering sampling and testing. Mr. Williams also has extensive experience performing ride quality and pavement friction testing. Mr. Williams is well established in the Texas market and continues to develop lasting professional relationships with public agencies and private companies alike.

EXPERIENCE

February 2020–present: Applied Research Associates, Inc. December

2015–January 2020: Dynatest North, America, Inc.

March 2004–December 2015: Fugro Consultants, Inc./Fugro Roadware, Inc.

SPECIFIC PROJECT EXPERIENCE

- **Louisiana Department of Transportation and Development Post-Katrina Testing.** Structural evaluation of 250 miles of roadways flooded by Hurricane Katrina including Falling Weight Deflectometer, Ground Penetrating Radar, Pavement Coring, and Dynamic Cone Penetrometer Testing to determine impact of flooding from Hurricane Katrina in the greater New Orleans area. (2006)
- **Louisiana Submerged Roads Program, New Orleans, LA.** Pavement evaluation including Falling Weight Deflectometer, Ground Penetrating Radar, Visual Distress Survey, and Pavement Coring.
- **Louisiana Department of Transportation and Development Statewide** Falling Weight Deflectometer and Pavement Coring. Structural evaluation of test sections throughout the state utilizing Falling Weight Deflectometer and Pavement Coring.
- **City of San Antonio, Texas Pavement Management Services.** As project manager, performed the first semi-automated inspection for the City consisting of approximately 4,000 centerline miles. Roadside assets inventoried and ADA ramp compliance inspections performed. Upload to Cartegraph, budget analyses, and training were also performed. (2009-2012).
- **North Tarrant Express Segment 1, 2, 3A, 3B and 3C Pavement Condition Assessment, Fort Worth, Texas.** As project manager, performed semi-automated pavement condition survey and friction testing in accordance with TxDOT PMIS reporting requirements. (2015-2016-1&2, 2018-3A, , 2019-3B, 2019-3C)
- **SH 130 Segments 5 & 6 Annual Pavement Condition Assessment, Central Texas Area.** As project manager, performed semi-automated pavement condition survey and friction testing in accordance with TxDOT PMIS reporting requirements. (2016, 2017, 2018, 2019, 2020, 2021)
- **Harbor Bridge Reconstruction Project Pavement Condition Assessment, Corpus Christi, Texas.** As project manager, performed semi-automated pavement condition survey and friction testing in accordance with TxDOT PMIS reporting requirements. (2019)
- **LBJ Express Pavement Condition Assessment Segments 1-3, Dallas, Texas.** As project manager, performed semi-automated pavement condition survey and friction testing in accordance with TxDOT PMIS reporting requirements. (2015, 2016)
- **Ameren Pipeline Pavement Condition Assessment, Counties in Illinois.** As project manager, performed semi-automated pavement condition assessment of roadways being used as construction haul routes for pre- and post-construction pavement conditions. (2016-2018)
- **City of Austin, Texas Pavement Data Collection Services.** As project manager, performed semi-automated pavement data collection and processing for two full survey cycles of 2,600 miles of roadway. Data submitted in Esri Geodatabase format. (2010-2013, 2020-2022)

JOSEPH DIB, EIT, PMP

STAFF CIVIL ENGINEER



ROLE

Project Engineer

YEARS OF EXPERIENCE

6

YEARS AT ARA

3

EDUCATION

- B.S., Civil Engineering, University of Balamand, Koura, Lebanon, 2017
- M.S., Structural Engineering, University of Balamand, Koura, Lebanon, 2019
- M.S., Civil Engineering, University of Nevada, Reno, Nevada, 2021

LICENSE & REGISTRATION

- Engineer in Training: Nevada No. 0T8539;
- Project Management Professional (PMP)

AREAS OF EXPERTISE

- Pavement Engineering
- Pavement Design
- Geotechnical Engineering
- Structural Pavement Evaluation utilizing both FWD and GPR
- Pavement ride quality testing
- Pavement friction testing,
- Pavement condition assessments

Mr. Dib will act as Data Acquisition and Analysis Manager and will oversee preparation for fieldwork and field operations. Mr. Dib brings two masters' degrees in Structural and Pavement Engineering and around five years of consulting transportation engineering experience to this role. Mr. Dib has been served in this role for many similar projects, including projects for Riverside County, Mohave County, Santa Clara County and the Cities of San Francisco, Palmdale, Palm Desert, Pico Rivera, Napa, Concord, Industry among many others.

Mr. Dib has five years of experience in civil, geotechnical, and pavement engineering research and consulting projects to Nevada Department of Transportation (NDOT), US Army Corps of Engineers (USACE), and several cities and counties in the state of California. He specializes in asphalt material/soil characterization, highway pavement design, pavement condition evaluation and field investigations including Falling Weight Deflection (FWD) testing, Ground Penetrating Radar (GPR), Pavement Condition Index (PCI) surveys for roadway pavements, GIS Integration, and pavement preservation and rehabilitation techniques. He is Metropolitan Transportation Commission (MTC) and Orange County Transportation Authority (OCTA) Certified rater and has extensive experience with StreetSaver® Software. He provided multiple training sessions for City staff of Cities and Counties in California.

EXPERIENCE

June 2021–present: Applied Research Associates, Inc.

June 2016–June 2019: El Douaihy Group LTD.

June 2015–November 2015: Infracore LTD.

SPECIFIC PROJECT EXPERIENCE

- **Pavement Management and Pavement Distress Data Collection.** Performed numerous pavement condition inspections on road pavements for Riverside County, Los Angeles County, City of Chula Vista, and Mount Vernon.
- **Evaluation and Rehabilitation Design.** Has extensive knowledge of non-destructive pavement testing equipment and methodologies. Has been involved with several rehabilitation and reconstruction projects using Falling weight Deflectometer (FWD) data. Completed pavement evaluation and FWD data analysis for the City of Carpinteria, CA. Also conducted roughness testing and evaluation for Maricopa County in addition to several friction analysis projects in Nevada. Currently working on pavement rehabilitation designs for the City of Pico Rivera.
- **Palmdale Regional Airport, CA.** As project engineer, performed non-destructive testing and analysis for multiple runways.
- **City of Carpinteria, CA.** As project engineer, performed semi-automated pavement condition assessment and Falling Weight Deflectometer (FWD) testing, and analysis of roadways being used as construction haul routes for pre- and post-construction pavement conditions. (2021)
- **City of San Francisco, CA.** As project engineer, currently performing semi-automated pavement data collection and processing for 160 miles of roadway. Data will be submitted in Esri Geodatabase format and uploaded to StreetSaver and budget analysis were performed (2020-2021).
- **Riverside County, CA.** As project engineer, semi-automated pavement condition survey, pavement management system update for 2,300 miles of roadways, and budget analysis performed (2021)