

March 16, 2023

Submission to Southern Plains Transportation Center – Summer Intern Program

Kera Willhoite

Summer Engineering Internship – EST, Inc.



Bachelor of Science: Civil Engineering, Expected in 05/2022

Oklahoma State University - Stillwater, OK

Kera Willhoite worked with EST's Water/Wastewater Division on various projects. During her summer internship she worked with engineers in the department, learning ways to approach different scenarios involving aspects such as drainage and roadway crossings on streams. She worked on report writing as well, learning the importance of documentation and proper communication with the client or necessary organizations. Her time was also spent learning programs and ways of modeling situations and storm events to be able to analyze how water would act on projects and meet ODOT requirements.

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Submission to Southern Plains Transportation Center – Summer Intern Program

Luke Major

Summer Engineering Internship – EST, Inc.



Bachelor of Science: Civil Engineering, Expected in 05/2022

Oklahoma State University - Stillwater, OK

Luke Major worked in EST's Construction Management Division on the Gilcrease Expressway Project in Tulsa. During his summer internship, he worked with EST construction inspectors learning proper soil compactions, construction materials testing methods and procedures along with standards that need to be met from ODOT and AASHTO for asphalt and concrete mixes. His time was also a part of the Construction Management team in learning the importance of construction phasing and coordination. He attended meetings with stakeholders to understand the importance of coordination with multiple governments, utilities, and private entities.

Submission to Southern Plains Transportation Center – Summer Intern Program

Nicholas Westenhaver

Summer Engineering Internship – EST, Inc.



Bachelor of Science: Civil Engineering, Expected in 05/2022

University of Oklahoma - Norman, OK

Nick worked with us in EST's Roadway and Bridge Division in Norman and is currently a senior majoring in Civil Engineering at The University of Oklahoma. During his tenure over the 2021 summer, he worked on many projects as part of the design team such as Cheadle Road, State Highway 19, State Highway 9, and the I-35 and Purcell Interchange. He used this great opportunity to gain experience in computer design work with tools such as Microstation, InRoads, StormCAD, and Hydraulic Toolbox. He learned how projects move from start to finish, and worked hands-on in creating drainage design maps, calculating necessary drain sizing for roadways, adjusting/analyze alignments and ditches, among many more key aspects of Engineering work. Nick said, "This was the best career opportunity I could have hoped for. It helped propel me from the idea of being a student to being able to visualize myself as a Professional Engineer in the working world. I am grateful to EST and SPTC for gifting me this irreplaceable experience."

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Submission to Southern Plains Transportation Center – Summer Intern Program

Ms. Jennifer Rodriguez

Summer & Winter Engineering Internship – EST, Inc.



Status – Senior/Full Time Student

Degree – Bachelor of Science in Civil and Environmental Engineering

Texas A&M University – College Station, TX

Expected Graduation – December 2022

Engagement #1: Summer 2021 (May – August 2021)

Ms. Rodriguez interned with EST's Texas Municipal Division in Melissa, TX. She aided EST engineers/technicians performing construction inspection and material acceptance testing duties on a variety of developments in the City of Melissa.

Primarily, Ms. Rodriguez shadowed EST technicians performing construction inspection on city approved commercial and residential neighborhood developments. She learned how to read construction plans, interpret project specifications, and took part in field issue resolution meetings. Under the supervision of EST field technicians, she gained practical engineering experience by performing field material acceptance testing, deciding if the completed work satisfied project requirements, resolving discrepancies, and preparing proper documentation. Her experiences exposed her to the construction of lime treated subgrades, retaining walls, and storm drains.

Additionally, Ms. Rodriguez took photographs, assisted EST staff in the preparation of weekly project status reports for various clients, and proofread proposals responding to professional engineering service solicitations.

Engagement #2: Winter 2021 (December – January 2022)

Ms. Rodriguez worked with EST's Melissa Division engineers on the Texas Department of Transportation (TxDOT) US 75 widening/reconstruction project in Grayson County, TX. During the winter break, she aided engineers by researching as-built plans to develop existing roadway typical sections. She drafted mainlane and frontage road existing typical sections using Bentley's MicroStation SS10 (Power GeoPAK) CADD software for the 14-mile project in compliance with TxDOT requirements.