

Sean Fields

Associate

Mr. Fields provides and assists with structural inspections and evaluations for CTLGroup's Structural Engineering & Mechanics division. His scope of work includes a range of projects from residential insurance inspections to industrial and commercial structural investigations. This scope of work also includes projects with the Architecture & Building Science and Structural Evaluation divisions.

He has experience working with on-site analysis methods including hammer-sounding, concrete coring, and ground penetrating radar (GPR) scans. Additionally, Mr. Fields is a FAA licensed pilot for small unmanned aircraft systems (sUAS or "drone"). Prior to completing his education at Purdue University, he interned with CTLGroup in the same division.

Representative Project Experience

Field Investigation

- Performed ground survey, evaluation, and condition assessment of a 75+ year old wood purlin and concrete channel slab roof system at the NASA Michoud Assembly Facility, New Orleans, LA transferring data to reflected ceiling plan sheets.
- Performed document analysis and field investigation of rooftop fall arrest anchor condition at a multi-story commercial structure in Lake Forest, IL.
- Inspected beam and column condition following fire damage in the basement of a multi-story mixed-use building in Chicago, IL. Work included documentation and nondestructive testing.

Structural Evaluation

- Investigation of residential and commercial weather effect claims in the Midwest. Work is ongoing and includes site investigation, analysis, and causation reporting.
- Investigation of numerous residential structure wind damage claims resulting from Hurricanes Laura and Delta – Gulf Coast. Work is ongoing and includes site investigation, analysis, and causation reporting.

Destructive and Nondestructive Testing

- Performed and assisted with hammer sounding, chain dragging, impulse response, half-cell potential testing and ground penetrating radar of concrete floor slabs and walls in residential, commercial, and transportation structures.
- Performed and assisted with concrete core sample drilling, cataloging, and analysis for residential and commercial concrete floor slabs and walls.
- Assisted with soil boring sample collection beneath a commercial building concrete floor slab.

Quality Assurance Inspection

- Analyzed local building code and supplemental construction documents. Investigated numerous residential subdivisions in the Alabama Gulf Coast to assess compliance to local building code and supplements.



Academic Credentials

B.S. in Civil Engineering
Purdue University, 2020

Licensure & Certifications

FAA Part 107 sUAS Remote Pilot
Certification (Certificate No.
4593139)
OSHA 10
Suspended Scaffold Operator
Aerial Boom Lift 3b Operator
TWIC

Contact Information

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- Performed field repair oversight and repair troubleshooting of reinforced concrete ring wall foundations supporting petrochemical tanks in Dubuque, IA.
- Assisted with repair plan oversight of molten salt tank repairs in Arizona. Work included document review and repair analysis.