

Youssef Bougataya

Forensic Engineering Expertise

Geo-Structural Analysis/Design

Review appropriate documents, including project plans and specifications as it relates to substructure elements, such as foundations. Examples of past work include the design of deep foundations (driven piles, drilled shafts, helical piles) and earth retention systems (soldier piles, secant piles, sheet piles) in support of transportation projects (ferries, bridges).

Geotechnical Engineering

Over eight years of geotechnical experience, including earthquake geotechnical engineering, deep foundations design, design of earth retention systems, ground improvement techniques, slope stability assessment, finite element modeling, modeling and mechanics of unsaturated soils, statistical and probabilistic solutions applied to geotechnical problems.

Building Fenestration/Building Envelope

The building envelope is a building's first line of defense to moisture entry. Identifying the type of system (single versus multiple barrier) and how the various adjoining materials' water, vapor, thermal, and air control layers connect is key to effective moisture management. Examples of past work include residential window installations, exterior cladding installation, and roofing materials.

Inspection and Evaluation of Roofing Systems

This includes steep and low slopes roofs as well as various types of roofing materials including both common and unique roofing applications. Past work involved offering opinions related to installation deficiencies and storm-related damages including for hail and wind.

Education

Master of Science in Geotechnical Engineering
Oregon State University, Corvallis, OR
June 2016

Bachelor of Science in Civil Engineering
Mohammadia School of Engineers, Rabat, Morocco
June 2014

Licenses & Certifications

PE - Professional Engineer:

Licensed by the State of California - Number 91649
Licensed by the State of Colorado - Number PE.0061657
Licensed by the State of Arizona - Number 77829
Licensed by the State of Utah - Number 13011813-2202
Licensed by the State of North Carolina - Number 052626
Licensed by the State of Alaska - Number 174640
Licensed by the State of Washington - Number 20111948
Licensed by the State of Nevada - Number 032666
Licensed by the State of Idaho - Number P-23289
Licensed by the State of Oregon - Number 105254PE
Licensed by the State of Texas - Number 153799

Youssef Bougataya 1

Last Modified: 4/21/25

This CV is not a solicitation for services and is provided as information only. Retention of this expert can only be obtained through a mutually agreed upon Letter of Engagement.

Licensed by the State of Tennessee - Number 130730
Licensed by the State of Maryland - Number 63290

Employment History

Forensic Engineer
Nederveld, Inc.

2025 - Present

Duties include forensic engineering analysis relating to building pathology and storm damage (wind and hail).

Geotechnical Department Manager
Intertek, Portland, OR

2023 - 2024

Lead and mentored a team of geotechnical engineers and project managers. Oversaw geotechnical and field services. Prepared and reviewed proposals and reports.

Geotechnical Department Manager
ECS Limited, Salt Lake City, UT

2022 - 2023

Managed the department for growth, prepared and reviewed proposals and reports, and managed departmental profit and loss.

Project Engineer

Geopier, a division of CMC, Davidson, NC

2020 - 2022

Designed ground improvement systems, including replacement and displacement technologies for several types of structures in the U.S. and internationally.

Geotechnical Engineer
Jacobs, Bellevue, WA

2017 - 2020

Designed shallow and deep foundations, earth retaining structures, ground improvement, embankments, cut slopes, and other geotechnical structures. Performed seismic hazard analyses, including site-response studies, liquefaction evaluations, seismic slope stability evaluations, etc. Used computer programs, including Settle3D, Slide, APile, Unipile, Shaft, FB-MultiPier, DeepXcav, GRLWeap, PLAXIS, gINT, SNAP2, and MathCAD to complete engineering analysis. Prepared design drawings and construction specifications and reviewed construction submittals for compliance with contract requirements and design assumptions.

Staff Geotechnical Engineer II

PBS Engineering and Environmental, Portland, OR

2016 - 2017

Conducted and managed construction observation for multiple small and mid-size projects in the northwest. Tasks included observation of pile installation, tieback testing, compaction testing, subgrade performance, and pavement testing. Analysis and design of the conventional aspects of geotechnical engineering, including seismic analysis, slope stability, pavement design, and axial and lateral capacity of foundation systems.

Graduate Research Assistant

Civil and Construction Engineering, Oregon State University

Youssef Bougataya 2
Last Modified: 4/21/25

This CV is not a solicitation for services and is provided as information only. Retention of this expert can only be obtained through a mutually agreed upon Letter of Engagement.

December 2014 - July 2016

Research topics: assessment of pile setup and reliability of pile driving analyses and capacity. Based region-specific recalibration of dynamic analysis of piles to produce accurate resistance factors for use within the LRFD framework.

Graduate Teaching Assistant

Civil and Construction Engineering, Oregon State University

December 2014 – July 2016

Geotechnical Engineering I (CE 372), Soil Engineering (FE 315), and Statics (ENGR 211).

Professional Affiliations

Past Member: American Society of Civil Engineers (ASCE)

Member: Deep Foundations Institute (DFI)

Publications

Region-specific calibration of resistance factors for use with static and wave equation analyses of driven piles, Deep Foundations Institute Journal, 2017

FOR REFERENCE ONLY NOT RETAINED