

Robert Speidel, E.I.T. Geotechnical Engineer



Robert Speidel is an A3GEO Staff Engineer with a Master's Degree in Geotechnical Engineering and 3+ years of progressively responsible geotechnical and environmental engineering experience. Robert's current responsibilities include managing and conducting geotechnical field investigations utilizing geotechnical borings, cone penetration tests, downhole geophysical testing, and geotechnical instrumentation. His proficiencies include managing all aspects of geotechnical investigative work, including subcontractor scheduling and onsite supervision, permit acquisition, access coordination and property-owner relations.

Robert has collaborated in authoring, reviewing, and editing geotechnical and environmental site assessment reports, conducted laboratory and field tests of soil and building materials under ASTM, ACI, and CALTRANS standards and observed/supervised the geotechnical aspects of construction, including excavations, foundations, tiebacks, earth fills, grading, grouting, concrete work and paving. His environmental experience includes investigation, sampling, monitoring and reporting; and experience with AAI, EPA sampling methods, CERCLA, RCRA, & CEQA rules.

Robert's office experience includes reviewing and editing field logs, preparing finalized boring logs using GINT, developing interpretive cross sections, interpreting laboratory test data, characterizing geotechnical properties, analyzing slope stability, settlement and earthquake ground motions and drafting of site maps, geologic hazard maps, and subsurface profiles.

CURRICULUM VITAE

Education

Bachelor of Science
Civil and Environmental Engineering
University of California, Berkeley

Master of Science
Civil and Geotechnical Engineering
University of California, Berkeley

Bachelor of Arts
Philosophy
University of California, Berkeley

Registrations

Engineer-in Training

Certifications

OSHA 40 Hour HAZWOPER

Certified Nuclear Gauge Technician

RELEVANT PROJECTS

LBNL Integrative Genomics Building (IGB) Investigation

Managed the geotechnical field investigation for the IGB, a major new research facility at the Lawrence Berkeley National Laboratory (LBNL) hillside campus. The site is in an area of exceptionally complex geology that includes large-scale landsliding and undocumented fill placed in multiple phases of site development dating back to the late 1940s. The IGB field investigation included continuously-sampled geologic borings with rotary-wash drilling/sampling, rock coring, downhole geophysics (televiewers and S- and P-wave suspension logging), geotechnical instrumentation (piezometers and slope indicators). Responsible for all aspects of the field investigation, which was completed in areas with an extensive network of subsurface utilities under rigorous Federal Health & Safety protocols. Responsibilities also included the appropriate handling, labeling, preservation and transportation of samples; participation during engineering geologic reviews of the retrieved samples and core; and preparation of detailed boring/core logs using GINT. Conducted baseline and post-baseline measurements in onsite piezometers and inclinometers.
[Berkeley, California](#)

270 Brannan Street Construction

Managed geotechnical services during construction for this project, which involved cement deep soil mixing (SMX), micropiles, tiebacks, underpinning and spread footing/mat construction. Responsible for all aspects of onsite geotechnical observation and testing, including interactions with the owner's construction management team and the subcontractors responsible for the work. [San Francisco, California](#)

Ocean View Elementary School Investigation

Responsible of managing all aspect of the geotechnical field investigation for the reconstruction of Ocean View Elementary School, a California public school subject to the oversight of the Division of the State Architect (DSA) and California Geological Survey (CGS). Field investigation responsibilities included obtaining permits and underground utility clearances, coordinating drilling and cone penetration test equipment, logging and sampling geotechnical borings and performing percolation/infiltration tests. Also responsible for preparing finalized boring logs using GINT and participating in the preparation of the geotechnical/geologic investigation report. The project involves the construction of multiple buildings and the creation of a new school campus; geologic conditions at the site include undocumented fill, localized liquefiable soil deposits and strong earthquake ground motions. [Albany, California](#)

Fremont Civic Center Master Plan Investigation

Responsible of managing all aspect of the geotechnical field investigation for the Fremont Civic Center, which included obtaining permits and underground utility clearances, coordinating drilling and cone penetration test equipment, logging and sampling geotechnical borings and performing percolation/infiltration tests. The Master Plan envisions a multi-year development of multiple buildings and related infrastructure; geologic conditions at the site include high groundwater, permeable alluvial fan deposits, compressible clays and strong earthquake ground motions.
[Fremont, California](#)