

# Serena T. Jang, PE, GE

Senior Associate  
Geotechnical Engineering



## 19 years in the industry ~ 19 years with Langan

Ms. Jang has performed geotechnical investigation and construction observation services for various projects throughout the Bay Area, including many sites in fill and Bay Mud. Ms. Jang's experience includes managing field investigation projects and performing engineering analyses including pile capacity (axial and lateral), slope stability computations, settlement, seismic hazards studies, bearing capacity, bioretention systems and roadway/pavement design. Her experience also includes observation during the installation and construction of driven piles and drilled piers, soldier pier and lagging and sheet pile shoring systems, observing and testing of tiebacks and tiedowns both temporary and permanent, observing and testing the compaction of fill, checking the subgrade exposed in footing excavations, observing the installation and conducting the monitoring of slope inclinometers and vibrating wire piezometers, and observing the installation and monitoring of surcharge and wick drain systems.

## Selected Projects

### Public Works/Infrastructure

- Burlingame Point Pedestrian Bridge, Burlingame, CA
- Fourth Street Bridge, San Francisco, CA
- Penitencia Water Treatment Plant Maintenance Building, San Jose, CA
- San Jose/Santa Clara Water Pollution Control Plant Upgrade, San Jose, CA
- Long Marine Laboratory Seawater Intake, UC Santa Cruz, Santa Cruz, CA
- United Airlines Pedestrian Bridge, SFO, San Francisco, CA
- Valley Transmitt Authority (VTA) Parking Structures for Berryessa Station, San Jose, CA
- Valley Transmitt Authority (VTA) Parking Structures for Milpitas Station, Milpitas, CA
- Water Emergency Transportation Authority's (WETA) North Bay Operations Facility on Mare Island, Vallejo, CA
- Mission Bay Public Infrastructure, San Francisco, CA
  - New Utilities and Roadways
  - North-South Public Improvement Projects
  - Stormwater Pump Station Nos. 1, 3, 4, 5 and 6

### Parks and Recreation

- Alma College Condition Assessment Study, Mid-Peninsula Open Space District Santa Clara County, CA
- Chase Center, Golden State Warriors Event Center & Mixed-Use Development, San Francisco, CA
- Mission Bay Parks, San Francisco, CA

## Education

M.Eng., Civil Engineering  
Cornell University

B.S., Civil Engineering  
University of California, Berkeley

## Professional Registration

Professional Engineer (PE) in CA  
Geotechnical Engineer (GE) in CA

## Affiliations

American Society of Civil Engineers

Engineers without Borders, 2001 - present

ACE Mentor Program - SF Bay Area  
Board Secretary, Scholarship  
Committee Chair, 2013 - present

## Publications

"Liquefaction Potential Mitigation using Rapid Impact Compaction" Proceedings of the GEESD - Geotechnical Earthquake Engineering and Soil Dynamics IV Conference, 2008, Sacramento, California (with L. Simpson, C. Ronan and L. Splitter)

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- Mission Creek Park (Parcels NP1-NP5)
- Mission Bay Commons Park (Parcel P16)
- Mission Bay Kids' Park (Parcel P6)
- Mariposa Park (Parcels P26/P27)
- Mission Bay Dog Park (Parcel NP5)

### ***Academic/Healthcare/Lab***

- 740 Heinz Laboratory Building, Berkeley, CA
- J. David Gladstone Institute (Mission Bay Block 41-43 Parcel 2), San Francisco, CA
- Highland Hospital, Oakland, CA
- Merced Replacement Hospital, Merced, CA
- Sunnyvale Center of Palo Alto Medical Foundation (PAMF), 301 and 401 Old San Francisco Road, Sunnyvale, CA
- University of California at San Francisco (UCSF), Mount Zion Campus, San Francisco, CA
- UCSF Mission Bay Campus, San Francisco, CA
  - Center for Vision Neurosciences, Block 33
  - Student Housing, Block 20
  - Laboratory, 409/499 Illinois Street (Mission Bay Block X4)

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### ***Office Campuses***

- Apple Campus 2, Pruneridge Site, Cupertino, CA
- Biotech Office Building, Mission Bay Block 26A, San Francisco, CA
- Britannia Cove Oyster Point Development, Life Science./Technology Campus, South San Francisco, CA
- Intuit Bay Area Master Plan, Mountain View, CA
- Emerystation Biotechnology/Office Campus, Emeryville, CA
- Equinix SV10 and SV11 Data Centers, San Jose, CA
- Office Tower (Mission Bay Block 28), San Francisco, CA
- Rail Yard Place, Creative Office Campus Development, San Jose, CA
- Samsung Research Center, Mountain View, CA
- Samsung Semiconductor Headquarters, San Jose, CA
- Shoreline Technology Park, 2019 Stierlin Court, Mountain View, CA
- Sun Microsystems, Menlo Park, CA
- The Exchange, Mission Bay Block 40, San Francisco, CA
- Varian Medical Systems Campus, Palo Alto, CA

### ***Mixed Use Development***

- Bay Meadows Development, San Mateo, CA

### ***Multi-Family Residential***

- 1 South Market Street, San Jose, CA
- AvalonBay I, II and III (Block N2 Parcel 3, Block N3 Parcels 1 & 2), Mission Bay, San Francisco, CA
- Channel Mission Bay (Block 2), San Francisco, CA
- Edgewater Apartments, Mission Bay (Block 4 West), San Francisco, CA

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- Elkhorn Apartments, San Mateo, CA
- Mission Walk - BRIDGE Housing, 355 Berry Street, Mission Bay Blocks N4 Parcel 2 and N4a Parcel 2, San Francisco, CA
- One Marina Development, Multi-Family Residential and Infrastructure, Redwood City, CA
- Riverview Apartments, San Jose, CA
- The Axis Condominium, San Jose, CA
- The Beacon (Block N1), Multi-Family Condominiums, Mission Bay, San Francisco, CA
- Venue Apartments (Mission Bay Block 3 West), San Francisco, CA
- City of San Bruno, Crestmoor Neighborhood Reconstruction, CA
- Bay Meadows Development, Mixed-Use, Community Park, Infrastructure, and Dry Storage Pond, San Mateo, CA
- Burlingame Point Development, Burlingame, CA
- Santa Clara Square Multi-Family Residential Development and Park, CA