
S.E. “JIM” JAMMAL, P.E.
Executive Vice President/Geotechnical Service Director
NODARSE & ASSOCIATES, INC.



Education:

B.S. in Mechanical
Engineering
University of Florida, 1961
Graduate Studies
University of Central Florida

**Professional
Registration:**

Registered Professional
Engineer, Florida #16121,
1973

Honors:

- National Society of Professional Engineers’ Engineering Career Achievement Award
- Governor Albert W. Gilchrist Award for Public Service
- Appointment by Governor Bob Graham as member of Statewide Committee of Experts in the Field of Dams and Reservoirs.
- Recognized for supporting the founding and development of the Florida Sinkhole Research Institute

S.E. “Jim” Jammal, PE, EVP, Geotechnical Services Director is a leading authority in the geotechnical industry and brings 47 years of extensive statewide experience in all aspects of geotechnical engineering, from the most generic of projects to the most complex, including geotechnical engineering for architectural, engineering and land development projects; construction materials testing and inspection; and sinkhole geology and hydrogeology. *In today’s economic climate, Mr. Jammal has been successful in providing our clients value engineering and is relied upon by many for his ability to “engineer through” complex construction challenges.*

As a widely recognized expert in his field, Mr. Jammal is frequently contacted to provide litigation consulting and expert testimony for a large number of cases. His dedication to geotechnical engineering excellence has led him to recognition as one of Florida’s most respected engineers and the foremost authority on Florida’s Karst sinkhole subsidence. For this reason, Mr. Jammal is frequently consulted by owners, developers, the media and government regarding the sinkhole phenomena. Mr. Jammal is considered a pioneer in raising the consciousness of the geotechnical engineering profession in Florida, and was presented the *Engineering Career Achievement Award by the National Society of Professional Engineers.*

Select Projects:

- 20 Mile Bend Property, Palm Beach County, Florida – Subsurface evaluation to study the feasibility of “Support Cover” concept for planning efforts in terms of future land uses, which may include water treatment areas, water storage areas, wild life corridors, flowways, continued agricultural use and the development of a residential community within about 4000 acres.
- Renaissance Project, West Palm Beach, Florida - Technical Review for geotechnical study for the design of water management diversion facilities to direct stormwater from the head waters of the Stub Canal into the southern portion of Clear Lake.
- Stormwater Treatment Area 3/4 in the Florida Everglades, Palm Beach County, Florida - Principal Geotechnical Engineer for this \$100 million Stormwater Treatment Area 3/4 project involving a 16,480 acre specially designed area in the Florida Everglades to help reduce existing phosphorus levels (fertilizers from agricultural runoff) which is a key component in the restoration of the ARiver of Grass@.
- Site 1 Impoundment, Palm Beach County, Florida - Principal Geotechnical Engineer for geotechnical investigation and analyses to support the Project design of the associated embankments, culverts, canals, structures and pump stations including geotechnical field investigations, data collection and review, followed by field, laboratory and geotechnical services for preparation of the Preliminary Design.

- Orlando Events Center, Orlando, Florida – Geotechnical Engineer of Record for geotechnical engineering explorations and evaluations to provide recommendations regarding the feasible foundation systems for the proposed structures and pertinent evaluations related to the stormwater, surface pavement and general site preparation.
- Blue Heron Resort, a 250,000 square foot, 20-story condominium resort located in Lake Buena Vista, Florida. *Nodarse & Associates, through a peer review, increased the pile capacity from 45 tons to 100 tons, which resulted in a \$700,000 savings for one building. The total cost savings for the project, through our efforts, is upward of \$3.5 million.*
- The Vue at Lake Eola, Orlando, Florida – When the first set of three test piles failed; and when 2 additional test piles also failed, the Owner engaged N&A to evaluate the cause of pile failure and offer recommendations to move the foundation work forward after the project was delayed by some six weeks. Immediately N&A responded, reviewed the pertinent record, understood the cause of the problem and offered a resolution that proved to be successful, hence moving the project forward. *This work was led by Jim Jammal, who became the Geotechnical Engineer of Record.*
- Howland Boulevard Sinkhole - Consultant for the sinkhole in Deltona, Florida which measured about 225 feet wide, 175 feet across and 50 feet deep. Nodarse's Jim Jammal, P.E., along with Universal Engineering and Volusia County, provided emergency response and immediate advice to reconstruct and open Howland Boulevard to traffic. *Mr. Jammal was able to link the cause of the sinkhole to the heavy rainfall from the '04 Hurricane season, and as a result, the County was reimbursed with federal funds for the entire cost of the damage, at the tune of just under \$700,000.*
- Rosen Shingle Creek Resort and Convention Center, Orlando, Florida – Mr. Jammal was involved on this project from conception to completion. The site work was complex with shallow and deep pockets of muck; a high water table, poor subgrade; and silty and clayey soils. Work on this challenging project included geotechnical explorations and evaluations, observing mass grading, the placement and backfill compaction of pipes and buried utility structures, conditioning the fill soil, design for the foundations, dewatering consulting, and design of special pavement subgrade. *A soil cover and pre-load was also engineered in lieu of replacing deep muck pockets, saving the client \$200,000.*
- Orange County Utilities, Orlando, Florida – Geotechnical Services Director for continuing services contract for geotechnical, hydrogeological, construction materials testing and environmental consulting services in support of Orange County Utilities' three divisions (water, wastewater and solid waste).
- Florida Hospital Expansion, Orlando, Florida – Principal geotechnical engineer for the new patient tower with two basement floors. Several foundations were evaluated and a mat foundation was selected as the most cost effective. The project involved complex settlement evaluations, shoring next to adjacent buildings due to about 20 feet of excavation, settlement monitoring, and the effect of dewatering on adjacent buildings.
- 55 West Condominiums, Orlando, Florida – Principal geotechnical engineer for feasible foundation and design level evaluation. This project is surrounded by existing structures and required vibration monitoring and shoring of existing buildings and a stormwater exfiltration system below the building.
- The New Peabody Hotel Tower, Orlando, Florida – Peer review and value engineering geotechnical evaluation for alternative foundations.
- Orlando International Airport, Orlando, Florida – Geotechnical engineering for original airport construction that included very complex drilling conditions, foundation soil conditions and complex geotechnical issues.
- Winter Park Sinkhole, Winter Park, Florida - Geotechnical evaluation and remediation recommendations for large-scale sinkhole which occurred in 1981. This was one of the largest and most damaging sinkholes ever in Central Florida.