

**GEOTECHNICAL CONTRACTOR PREQUALIFICATION REQUIREMENTS  
(REVISED 12/8/11)**

Geotechnical contractors shall submit at least one key person per role for each work code and documentation verifying the following requirements.

- Contractor has successfully completed at least 5 projects within the last 3 years for each work code
- Experience/equipment meet the miscellaneous requirements, if applicable, for each work code
- Key personnel meet the registration/certification required, if applicable
- Key personnel meet the years of experience required

Documentation should include project lists and descriptions including names and current contact information of general contractors and owners, resumes, references, certificates, experience descriptions and details, etc. For PDA and CSL work (work codes 3060 and 3065), also submit 2 example reports for each work code in accordance with the miscellaneous requirements. For questions about these prequalification requirements, contact Scott Hidden, P.E. or Mohammed Mulla, P.E. of the NCDOT Geotechnical Engineering Unit at (919) 707-6850.

Work Code	Work Code Description	Type of Work	Key Personnel Required	Registration/Certification Required	Years of Experience Required	Miscellaneous Requirements
000075	Rock Slope Stabilization	Horizontal Drains, Rock Bolts, Rockfall Netting and Fences, Rock Slope Scaling, Etc.	Project Manager	---	5	Successful completion of at least 150 tensioned rock bolts within the last 3 years Equipment to access steep slopes
			Superintendent	---	5	
000220	Blasting	Production, Controlled, Cushion or Trim, Trench and Secondary Blasting and Pre-Splitting	Blaster-In-Charge	---	5	
000411	Drilled Piers for Bridges		Project Manager	---	5	Successful completion of drilled piers for structures at least 36" in diameter within the last 3 years Experience with drilled pier construction including dry and wet placement of concrete and the use of temporary casing or slurry
			Superintendent	---	5	
003020	Retaining Walls (Anchored)	Anchored (Tieback) Retaining Walls and Shoring, Soil Nail Retaining Walls and Temporary Soil Nail Walls	Project Manager	---	5	Successful completion of at least 10,000 ft <sup>2</sup> of shoring or wall face area with at least 150 anchors (driven, ground or helical) or 500 soil nails within the last 3 years
			Superintendent	---	5	
003030	Drilled Piers for Metal Poles	Lighting, Signals and Signs	Project Manager	---	5	Experience with drilled pier construction including dry and wet placement of concrete and the use of temporary casing or slurry
			Superintendent	---	5	
003040	Contaminated Material Removal	Hazardous and Non-Hazardous Materials	Superintendent	HAZWOPER*	5	Experience with handling, transporting and delivering contaminated soil and groundwater to a licensed facility
003045	Drilling for Geoenvironmental Investigations	Monitoring Wells and Soil and Groundwater Sampling	Lead Driller	NC Certified Well Contractor	3	Experience with air rotary, auger or direct push drilling on contaminated sites
003050	Drilling for Geotechnical Investigations		Lead Driller	NC Certified Well Contractor	3	Drilling equipment to access wooded and overgrown areas, obtain N and H size cores and drill 120 ft auger borings and 200 ft mud borings
003060	Pile Driving Analyzer (PDA)		Project Engineer	P.E.* & Advanced** or Higher	5	Experience with PDA and CAsE Pile Wave Analysis Program (CAPWAP), version 2006 or later, manufactured by Pile Dynamics, Inc. 2 examples of PDA testing with CAPWAP analysis for one steel pile and one prestressed concrete pile
			Field Engineer	Basic** or Higher	1	
003065	Crosshole Sonic Logging (CSL)		Project Engineer	P.E.*	5	2 examples of CSL testing for 2 different projects with drilled piers at least 42" in diameter and at least 4 CSL tubes per pier
			Field Engineer	---	1	

\*Hazardous Waste Operations and Emergency Response Standard (HAZWOPER) from Occupational Safety & Health Administration (OSHA) and Professional Engineer (P.E.) licensed in the State of North Carolina

\*\*Advanced or Basic for High Strain Dynamic Pile Testing (HSDPT) Certification by Foundation QA ([www.hsdptregister.org](http://www.hsdptregister.org)) or Certificate of Proficiency by Pile Dynamics ([www.pdaproficiencyttest.com](http://www.pdaproficiencyttest.com))

**GEOTECHNICAL CONTRACTOR PREQUALIFICATION REQUIREMENTS  
(CONTINUED)**

<b>Work Code</b>	<b>Work Code Description</b>	<b>Type of Work</b>	<b>Key Personnel Required</b>	<b>Registration/ Certification Required</b>	<b>Years of Experience Required</b>	<b>Miscellaneous Requirements</b>
003070	Non-Destructive Foundation Testing	Gamma-Gamma Density Logging, Pile Integrity Testing (PIT), Thermal Integrity Testing, Ultra and Parallel Seismic Testing, Etc.	Project Engineer	P.E.*	5	
003080	Foundation Testing	Caliper Logging, Shaft Inspection Device (SID), Load Testing, Etc.	Project Engineer	P.E.*	5	
003100	Micropiles		Project Manager	---	5	Successful completion of at least 250 micropiles within the last 3 years
			Superintendent	---	5	
003110	Continuous Flight Auger (CFA) Piles		Project Manager	---	5	Successful completion of at least 250 CFA piles within the last 3 years and experience with automated monitoring and recording equipment
			Superintendent	---	5	
003120	Vibration & Noise Monitoring	Vibration and Noise Monitoring and Pre/Post-Blast or Pre/Post-Construction Surveys	Project Engineer	P.E.*	5	
003125	Structure Movement Monitoring		Project Surveyor	P.L.S.*	3	Experience with monitoring ground or structure movement, displacement, deformation, settlement, subsidence, etc. Equipment to repeatedly measure centimeter movement
003130	Ground Improvement Methods	Dynamic Compaction, Grouting, Stone Columns, Wick Drains, Etc.	Project Manager	---	5	
			Superintendent	---	5	

\*Professional Engineer (P.E.) or Professional Land Surveyor (P.L.S.) licensed in the State of North Carolina