

PHYSICAL & MENTAL REQUIREMENTS/WORKING CONDITIONS
City of Virginia Beach, VA

Job Title:	Engineering Technician II	Position Number(PCN):	B.003614
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Div./Office:	PWD 701 SWU - Project Management	Approver's Name:	
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Date of Last Update:	September 17, 2025	Approver's Title:	
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Fields to the right (Y/N): The position's status AND if the background check must be passed by the incumbent	Safety Sensitive:	No	Child Protective Services (CPS) Background:	No	VCIN Background:	No
	CJIS Certification:	No	PREA Certification:	No	Subject to Barrier Crime Provisions:	No

REQUIREMENTS

FREQUENCY: Seldom = Infrequent, < 5%; Occasional = 5% to 25% of time on job; Frequent = 25% to 75% of time on job; Constant = Over 75% of time on job.
 Typical DURATION: Short = < 1 hr per occurrence; Moderate = 1-2 hrs per occurrence; Substantial = 2-6 hrs per occurrence; Long = > 6 hrs per occurrence.

Physical Demands				Working Conditions			
Element	Condition/Level/Value	Frequency	Duration	Element	Condition/Level/Value	Frequency	Duration
Standing		Occasional	Moderate	Working Outside:	in all weather conditions	Seldom	Moderate
Walking		Occasional	Moderate	Working Alone:	out of communication w/others	N/A	N/A
Sitting		Frequent	Substantial	Extreme Temperatures	At/above 90 degrees	Seldom	Moderate
Reaching	Lower than shoulder level	Seldom	Short		Below 30 degrees	Seldom	Moderate
Lifting	Up to 25 lbs.	Seldom	Short	Extreme Wetness		N/A	N/A
				Extreme Dryness		N/A	N/A
Carrying	Weight: Up to 25 lbs.	Seldom	Short	Exposure to Traffic	High Traffic Low Speed	Seldom	Short
	Distance: Up to 25 ft.	Seldom	Short		High Traffic High Speed	Seldom	Short
Pushing	Estimated weight-resistance equivalency			Congested Area/Workspace		N/A	N/A
	Up to 50 lbs.	Seldom	Short	Confined Space-	Permit REQUIRED	N/A	N/A
Pulling	Estimated weight-resistance equivalency			Working Below Ground		N/A	N/A
	Up to 50 lbs.	Seldom	Short	Working at Heights (ft.)	N/A	N/A	N/A
Working Overhead	N/A	N/A	N/A	Noise Level:	> 85 decibels TWA for 8 hrs.	N/A	N/A
	Weight: N/A	N/A	N/A				
Climbing Stairs		Seldom	Short	Vibrations	N/A	N/A	N/A
Climbing Ladders		N/A	N/A				
Balancing		Seldom	Short		Body area(s):	Ex- Trunk, shoulders, arms, and hands.	
Stooping		Seldom	Short	Dust / Dirt / Particulate		Seldom	Moderate
Kneeling/Squatting		Seldom	Short	Radiation		N/A	N/A
Bending		Seldom	Short	Silica/Fiberglass		N/A	N/A
Crawling		N/A	N/A	Asbestos		N/A	N/A
Explosive Strength: Short bursts of muscle force to propel oneself.		Seldom	Short	Aerosols & Gases	N/A	N/A	N/A
Trunk Strength: Use of abdominal and lower back muscles.		Seldom	Short	Hazardous Materials /Chemicals		N/A	undefined
Dynamic Strength: Use of muscle force repeatedly or continuously & resistant to fatigue.		N/A	N/A	Petroleum Products	Liquid	Seldom	Short
Repetitive Limb Movement	Fingers/Wrist	Frequent	Substantial	Electrical Hazard		N/A	N/A
	Arm/Shoulder	Seldom	Short	Fire Hazard		N/A	N/A
Dexterity	Use of computer keyboard	Frequent	Substantial	Infectious Diseases	N/A	N/A	N/A
	Handwriting	Occasional	Moderate	Exposure Type(s):	Ex- Repair sewer pipes; empty residence trash cans.		
Repetitive Twisting	N/A	N/A	N/A	Symbols:	< equal to or less than	< less than	
					> equal to or greater than	> greater than	
Awkward Positions & Motions	N/A	N/A	N/A				

Sensory Demands				Working Conditions (cont.)			
Element	Condition/Level/Value	Frequency	Duration	Element	Condition/Level/Value	Frequency	Duration
Vision	20/40 w/correction	Frequent	Substantial	Hazardous Surfaces	Abrupt uneven surfaces	Seldom	Moderate
	Depth perception	Seldom	Short		Unstable ground	Seldom	Moderate
	Color vision (colors)	Seldom	Short		Swamp/Marsh	Seldom	Short
				Other Hazards	N/A	N/A	N/A
Hearing	Conversational level	Frequent	Moderate				
Smell	N/A	N/A	N/A	Hours Worked	More than 40 hours/week	Seldom	
Touch	N/A	N/A	N/A	Telework Eligible	Yes		
Voice	One-on-One	Occasional	Short				
Personal Protective Equipment (PPE)				Equipment Operation & Use			
Category	Type	Frequency	Duration	Category	Type	Frequency	Duration
Eye and Face Protection	Safety glasses w/side shields	Seldom	Short	Motor Vehicles	Sedan/Pickup/Van	Seldom	Moderate
				Heavy Equipment	N/A	N/A	N/A
Respiration Protection	N/A	N/A	N/A				
Hearing Protection	Ear plugs	Seldom	Short	Other Equipment or Machinery	Powered boat	Seldom	Moderate
Head Protection	Hard hat (impact protection)	Seldom	Moderate				
Hand Protection	Cloth/General Duty	Seldom	Short	Hand-Held Power Tools	Cordless drill	Seldom	Moderate
					Impact drill/wrench	Seldom	Moderate
Foot Protection	Steel/composite toe-safety rated	Seldom	Moderate	Hand Tools and Instruments	Survey tools	Seldom	Short
	Closed-toe street shoes	Constant	Long				
Body, Arm, and Leg Protection	Traffic vest	Seldom	Moderate	Office Machines & Equipment	Computer	Frequent	Substantial
					Map/blueprint printer	Occasional	Short
					Printer/Copier/Fax	Occasional	Short
Operator License				Commercial Driver's License			
NOTE: If CDL is required, show CDL Class in element to right.	Type			VA DMV requires: 20/40 in each eye w/o telescopic lens & ≥140° horizontal vision.	N/A		
	Standard Driver's License						
Other physical or sensory demands, working conditions, equipment, hazards, PPE, etc., not indicated above:							

Mental Requirements

Evaluate based on the level of complexity [least to most] inherent in the job using the examples provided; then select the number from the drop-down list that matches the column which best represents the mental demand required in each element.

1 Comprehend Verbal Communication - Understand information and directions which are provided verbally
Job requires the ability to understand and follow: Detailed information from a supervisor, a customer, or trainer/instructor which is necessary to the successful performance of job duties.
2 Communicate Orally - Verbally express thoughts and directions
Job requires: Communicating specialized information to co-workers, supervisors or customers.
3 Comprehend and Follow Written Material or Instructions - Understand written material, interpret appropriately, and adhere to the procedures stated.
Job requires ability to comprehend: Detailed written material in the form of informational reports, memos, articles, plans and drawings to be used in performing duties.
4 Written Communication Skills - Express thoughts and directions in writing
Job requires: Preparation of written information providing specialized information in the form of a letter, memo or report.
5 Maintain an Appropriate Work Pace - The flow or rate of incoming work assignments and the expectations for completion of tasks
Job requires ability to adhere to work schedule: In moderately paced environment with some unexpected assignments.
6 Perform Complex or Varied Tasks - The variety of tasks and assignments and the level of complexity of those tasks/assignments
Job requires ability to perform: A variety of tasks at the fully functional independent level.
7 Interact and Relate to Peers, Co-Workers, or the Public - The nature and level of interaction with others required of the job
Job requires interaction: With others outside of the immediate work unit/agency, typically one-on-one, responding to inquiries or responding to requests for services.
8 Decision Making & Reasoning Ability - The extent to which the job requires logic to analyze information, draw conclusions/ generalizations, and make decisions based on facts
Job requires: Little independent decision making. Established methods and procedures are followed and close supervision is present.
9 Memory and Recall - The body of stored knowledge required and the retrieval of that information to accomplish duties
Job requires the ability to: Remember detailed methods and procedures and apply them to work being performed.
10 Flexibility and Adaptability - The extent to which one must adjust to changing circumstances and expectations, take on new challenges on short notice, and/or deal successfully with changing priorities and workloads
Job requires flexibility and willingness: To adjust to non-typical conditions or situations where a new or different process/procedure must be utilized to accomplish work.
11 Attention Span - Sustained attention or the time spent continuously on task without becoming distracted to successfully perform duties
Job tasks are: Varied, lengthy, and require considerable focus. Lapses may result in injury or legal or financial liability.
12 Attention to Detail - Thoroughness and accuracy are required to accomplish tasks
Job tasks: Involve numerous and various details, some of which have subtle differences, that require continuous and close attention to detail to facilitate accuracy of outcome. Inattention to detail could result in legal or financial liability.
13 Reaction Time - Describes work that requires an immediate response or decision
Job requires the ability to: Provide an immediate response/decision to maintain normal daily operations, procedures or processes. Delays occur if response is not timely.
14 Direct, Control, and Plan the Work of Others - Determine the time, place and sequence of work procedures, operations, and actions. Establish goals and objectives, motivate, and promote cooperation and teamwork in the work group
Job requires: No supervision or management of staff.
15 Influence Others - Obtain cooperation from others to accomplish tasks and objectives
Job requires: Obtaining support from other work groups to accomplish objectives.
16 Stress Tolerance - Ability to perform duties without anxiety when faced with difficulties. Having positive stress tolerance is being able to stay calm in situations of heavy workload, tight deadlines, and/or difficult customers
Job requires the ability to: Tolerate typical work stressors such as deadlines or conflict and maintain composure.