

Occupation Profile for Computer and Information Research Scientists in Denton County, TX

Typical Work Abilities Required Table

The table below shows the results of a national survey listing the most common work abilities required by Computer and Information Research Scientists in order of importance.

Work Ability	Work Ability Description	Rank by Importance (Out of 100)
Deductive Reasoning	The ability to apply general rules to specific problems to produce answers that make sense.	78
Inductive Reasoning	The ability to combine pieces of information to form general rules or conclusions (includes finding a relationship among seemingly unrelated events).	78
Oral Comprehension	The ability to listen to and understand information and ideas presented through spoken words and sentences.	75
Oral Expression	The ability to communicate information and ideas in speaking so others will understand.	75
Fluency of Ideas	The ability to come up with a number of ideas about a topic (the number of ideas is important, not their quality, correctness, or creativity).	72
Problem Sensitivity	The ability to tell when something is wrong or is likely to go wrong. It does not involve solving the problem, only recognizing there is a problem.	72
Written Comprehension	The ability to read and understand information and ideas presented in writing.	72
Category Flexibility	The ability to generate or use different sets of rules for combining or grouping things in different ways.	69
Information Ordering	The ability to arrange things or actions in a certain order or pattern according to a specific rule or set of rules (e.g., patterns of numbers, letters, words, pictures, mathematical operations).	69
Near Vision	The ability to see details at close range (within a few feet of the observer).	69
Written Expression	The ability to communicate information and ideas in writing so others will understand.	69
Originality	The ability to come up with unusual or clever ideas about a given topic or situation, or to develop creative ways to solve a problem.	66
Mathematical Reasoning	The ability to choose the right mathematical methods or formulas to solve a problem.	60
Number Facility	The ability to add, subtract, multiply, or divide quickly and correctly.	56
Speech Clarity	The ability to speak clearly so others can understand you.	56
Speech Recognition	The ability to identify and understand the speech of another person.	56
Visualization	The ability to imagine how something will look after it is moved around or when its parts are moved or rearranged.	56
Flexibility of Closure	The ability to identify or detect a known pattern (a figure, object, word, or sound) that is hidden in other distracting material.	50
Perceptual Speed	The ability to quickly and accurately compare similarities and differences among sets of letters, numbers, objects, pictures, or patterns. The things to be compared may be presented at the same time or one after the other. This ability also includes comparing a presented object with a remembered object.	50
Memorization	The ability to remember information such as words, numbers, pictures, and procedures.	47
Selective Attention	The ability to concentrate on a task over a period of time without being distracted.	47
Speed of Closure	The ability to quickly make sense of, combine, and organize information into meaningful patterns.	47

Work Ability	Work Ability Description	Rank by Importance (Out of 100)
Far Vision	The ability to see details at a distance.	41
Finger Dexterity	The ability to make precisely coordinated movements of the fingers of one or both hands to grasp, manipulate, or assemble very small objects.	41
Time Sharing	The ability to shift back and forth between two or more activities or sources of information (such as speech, sounds, touch, or other sources).	38
Hearing Sensitivity	The ability to detect or tell the differences between sounds that vary in pitch and loudness.	28
Arm-Hand Steadiness	The ability to keep your hand and arm steady while moving your arm or while holding your arm and hand in one position.	25
Auditory Attention	The ability to focus on a single source of sound in the presence of other distracting sounds.	25
Control Precision	The ability to quickly and repeatedly adjust the controls of a machine or a vehicle to exact positions.	25
Manual Dexterity	The ability to quickly move your hand, your hand together with your arm, or your two hands to grasp, manipulate, or assemble objects.	25
Visual Color Discrimination	The ability to match or detect differences between colors, including shades of color and brightness.	25
Trunk Strength	The ability to use your abdominal and lower back muscles to support part of the body repeatedly or continuously over time without 'giving out' or fatiguing.	22
Wrist-Finger Speed	The ability to make fast, simple, repeated movements of the fingers, hands, and wrists.	22
Depth Perception	The ability to judge which of several objects is closer or farther away from you, or to judge the distance between you and an object.	19
Response Orientation	The ability to choose quickly between two or more movements in response to two or more different signals (lights, sounds, pictures). It includes the speed with which the correct response is started with the hand, foot, or other body part.	3

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