



DEPARTMENT: Financial and Management Services/Information Resources Management/ Information Technology

NATURE OF WORK:

Performs responsible technical work.

Analyzes programming needs, designs appropriate solutions, writes new programs, maintains existing systems, assists users, and operates the computer system. Work is performed under the general supervision of the Information Technology (IT) Administrator.

ESSENTIAL FUNCTIONS OF THE JOB:

Systems analysis and design of business solutions:

- Works closely with and guides departmental personnel to identify requirements.
- Designs process flow including both human and computerized interface and processes.
- Writes detailed specifications for in-house or outsourced computer applications.
- Monitors project development progress.
- Guides and assists department personnel with acceptance procedures.

Development of computer desktop and browser applications:

- Designs and flowcharts application interfaces and components.
- Designs and builds data layout and specifications.
- Develops computer programs using standard programming principles and languages.
- Writes technical and end-user documentation.
- Implements completed applications and trains end-users.
- Maintains existing applications.
- Maintains a shared library of reusable programming code components.

General IT competency and support:

- Practices continuous learning through individual study, classroom training, seminars and conferences.
- Performs work safely in accordance with departmental safety procedures and the County Safety Program.
- Operates equipment safely and reports any unsafe work condition or practice to supervisor.
- Performs related work as required.

JOB LOCATION AND EQUIPMENT OPERATED:

Duties are performed primarily in an office setting. Operates computer keyboard and other standard office equipment. Uses small tools to make repairs and adjustments to hardware.

REQUIRED KNOWLEDGE, SKILLS, AND ABILITIES:

Thorough knowledge of:

- Microsoft platform domain, and desktop technology.
- Internet technology and server software including Microsoft Internet Information System.
- Microsoft desktop operating systems and office solutions, specifically Access.
- Desktop and browser development products, including Visual Studio, VB.Net and ASP.Net.
- Database technology and design, including Microsoft SQL server.

Thorough knowledge of appropriate computer language and of current programming techniques.

Considerable knowledge of requirements analysis and program design methods and tools.

Ability to prepare technical documentation, reports, and presentations.

Ability to manage time and keep schedules.

Ability to establish good working relationships with users.

Ability to work independently or as part of a team.

Ability to make decisions in accordance with established policies.

MINIMUM QUALIFICATIONS:

Bachelor's degree in Information Sciences, computer science or related discipline and significant programming experience; or any equivalent combination of acceptable education and experience providing the knowledge, abilities, and skills cited above.

panalyst514_194_01
February 2006

IDENTIFICATION OF GENERAL APTITUDES AND PHYSICAL REQUIREMENTS

Position Title: Programmer Analyst Position Number: 514
Department: FMS Division: IRM/IT

The Americans with Disabilities Act requires that we identify the general aptitudes and physical requirements needed to perform the job listed above. Individuals who have the position must be able to perform all essential job functions unaided or with reasonable accommodation.

I. Mental Abilities: General learning ability. The ability to “catch on” or understand instructions and underlying principles.

- Ability to understand and follow oral instruction
- Ability to understand and follow written instruction
- Ability to guide and/or give instructions
- Ability to make decisions in accordance with established procedures and policies
- Not essential to job function

II. Verbal Abilities: Ability to understand meanings of words and ideas associated with them and to use them effectively. To comprehend language, to understand relationships between words, and to understand meanings of whole sentences and paragraphs. To present information or ideas clearly.

1 Speaking/Talking:

- Answering telephone, radio, or switchboard
- Communicating with County officials
- Communicating with general public
- Communicating with vendors
- Communicating with supervisors and/or with other employees
- Communicating with others _____
- Not essential to job function

2 Hearing/Listening:

- Ability to distinguish between different tones
- For communication with County officials, public, vendors, supervisors and/or other employees
- Not essential to job function

3. Reading: (ability to read and understand text)

- Essential to job function
- Not essential to job function

III. Numerical: Ability to perform arithmetic operations quickly and accurately.

- Ability to mentally perform accurate two digit calculations
- Ability to perform accurate calculations aided by a calculator, adding machine or measurement device
- Not essential to job function

IV. Spatial Abilities: Ability to comprehend forms in space and understand relationships of plane and solid objects. May be used in such tasks as blue print reading and in solving geometry problems. Frequently described as the ability to “visualize” objects of two or three dimensions, or to think visually of geometric forms.

- Essential function
- Not essential function

V. Motor Coordination: Ability to coordinate eyes and hands or fingers rapidly and accurately in making precise movements with speed. Ability to make a movement response accurately and quickly.

1. Manual Dexterity: Ability to move the hands easily and skillfully. To work with the hands in placing and turning motions.

- | | |
|--|--|
| <input checked="" type="checkbox"/> Use telephone | <input checked="" type="checkbox"/> Manipulate computer keyboard and mouse |
| <input type="checkbox"/> Use switchboard | <input type="checkbox"/> Use postage machine |
| <input checked="" type="checkbox"/> Use radio/console | <input checked="" type="checkbox"/> Use hand tools |
| <input checked="" type="checkbox"/> Use a calculator | <input type="checkbox"/> Use power tools |
| <input checked="" type="checkbox"/> Use a copy machine | <input type="checkbox"/> Other: _____ |
| <input checked="" type="checkbox"/> Use a fax machine | <input type="checkbox"/> Not essential to job function |

2. Finger Dexterity: Ability to move the fingers and manipulate small objects with the fingers rapidly or accurately. For example: electrical wiring.

- Essential to job function
- Not essential to job function

Explain: _____

VI. Physical Demands:

1. Strength: The quality, state or property of being strong. The power to withstand strain, force or stress.

Please check (✓) in appropriate boxes below.

Ability to manipulate materials and/or equipment (lbs)							Frequency of Manipulation		
	5-	5-10	10-15	15-25	25-50	50+	Occasionally	Frequently	Continuously
Lift					✓		✓		
Push/Pull					✓		✓		
Hold/Carry					✓		✓		

Manipulation done from: ground to waist waist level waist to shoulder above shoulder
(Check all that apply)

Not essential to job function: Lift Push/Pull Hold/Carry (Check all that apply)

2. Climbing: To move up or mount by using the hands or feet.

Ladders

Stairways

Steps

- | | | |
|--|--|--|
| <input checked="" type="checkbox"/> Step stool | <input checked="" type="checkbox"/> 1 flight | <input type="checkbox"/> 1-2 |
| <input type="checkbox"/> 8' to 10' step ladder | <input type="checkbox"/> 2 flights | <input type="checkbox"/> 2-3 |
| <input type="checkbox"/> Extension ladder | <input type="checkbox"/> 3 or more flights | <input checked="" type="checkbox"/> 3-4 |
| <input type="checkbox"/> Other _____ | <input type="checkbox"/> Other _____ | <input type="checkbox"/> Other _____ |
| <input type="checkbox"/> Not essential to job function | <input type="checkbox"/> Not essential to job function | <input type="checkbox"/> Not essential to job function |

3. Ability to Stand, Sit, Walk, and Run:

Please check (✓) in appropriate boxes below.

	Duration (hours/day)						Occasionally	Frequently	Continuously
	0-1	1-3	3-5	5-7	7-9	9+			
Stand	✓						✓		
Sit			✓					✓	
Walk	✓						✓		
Run									

If walking or running, over what type of terrain? flat rough both

Not essential to job function: Stand Sit Walk Run (Check all that apply)

4. Stooping, Kneeling, Crouching, and/or Crawling:

To bend forward or down from the middle of the waist or the middle of the back, to bend downwards, to lower oneself and/or to move freely on hands and knees.

Daily Amounts

- 0-5x
 5-20x
 20-50x
 50+x
 Other _____
 Not essential to job function

5. Reaching, Handling, Fingering, and/or Feeling:

To stretch out, extend, or put forth a bodily part. To touch or grasp something, by extending or stretching. To touch, lift, hold or operate with the hands.

Daily Amounts

- 0-5x
 5-20x
 20-50x
 50+x
 Other _____
 Not essential to job function

6. Seeing: To perceive or comprehend by the sense of sight.

Essential to job function: These characteristics are necessary (Check all that apply)

- Peripheral vision
- Night vision
- Focus (distinctness or clarity)
- Color perception (discriminate between colors)
- Depth perception (determine distance relationship between objects)
- Not essential to job function

VII. Driving: The ability to transfer or convey in a vehicle.

Transmission	Standard	Automatic	Multi-Gears
Car	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Van	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Small Truck	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Medium Truck	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Large Truck	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Truck w/Equipment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Heavy Bus Equipment	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Not essential to job function	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Other (list) _____			