



October 24, 2023

Milwaukee Police Department
Police Administration Building
749 West State Street
Milwaukee, Wisconsin 53233
<http://www.milwaukee.gov/police>

Jeffrey B. Norman
Chief of Police

(414) 933-4444

The Board of
Fire and Police Commissioners
200 East Wells Street, Room 706
Milwaukee, WI 53202

RE: REQUEST FOR PROGRAMMER ANALYST EXAMINATION/ELIGIBILITY LIST

Dear Commissioners:

I respectfully request that your Honorable Commission refer this request to the Department of Employee Relations (DER) to conduct a recruitment, administer an examination, and provide an eligibility list for the position of Programmer Analyst as soon as administratively possible. The Programmer Analyst's role, under the direction of the Information Systems Manager, is to define, develop, test, analyze, and maintain new software applications in support of the achievement of business requirements for the Milwaukee Police Department.

Attached please find a job description for the position. Department representatives are available to assist DER staff in this matter. If you have questions regarding this matter, please contact Human Resources Representative Mai Xiong at (414) 935-7591.

Sincerely,

A handwritten signature in black ink, appearing to read 'J. B. Norman', written over a horizontal line.

JEFFREY B. NORMAN
CHIEF OF POLICE

JBN:mx
Attachment

JOB DESCRIPTION

FOR DER USE ONLY

Vacancy No. _____

City Service _____

Commission: _____

Fire & Police _____

Commission: _____

Finance _____

Committee: _____

Common _____

Council: _____

Instructions: Complete all sections. Refer to the *Guidelines for Preparing Job Descriptions* for instructions on completing specific items.

1. Date Prepared/ Revised: June 17, 2015 / 10/19/2023		2. Present Incumbent: Vacant		Is incumbent underfilling position?	
3. Date Filled:		4. Previous Incumbent: Richard Wright		YES ☐ NO ☒	
				If YES, indicate Underfill Title in box 10.	
5. Department: POLICE DEPARTMENT		Bureau: Administration Division: IT Division		Unit: Section:	
6. Work Location: Information Systems		Telephone: Email:		Work Schedule: Hours: 8 Days: 5	
7. Represented by a Union? ☐ Yes ☒ No		Bargaining Unit: If in District Council 48, which local?		8. FLSA Status (check one): ☐ Exempt ☒ Non-Exempt	
10. Official Title: Programmer Analyst		Pay Range		Job Code	
		2GN		0175	
Underfill Title (if applicable):					
Requested Title (if applicable):					
Recommended Title (DER Use Only):		Approved by: _____ Date: _____			

11. BASIC FUNCTION OF POSITION:

The Programmer Analyst's role is to assist in defining, developing, testing, analyzing and maintaining new software applications in support of the achievement of business requirements. This includes writing, coding, testing, and analyzing software programs and applications. The Programmer Analyst will also research, design, document, and modify software specifications throughout the production life cycle. The Programmer Analyst will monitor database performance and use SQL Server Integration Services (SSIS) to create packages to validate, extract, transform and load (ETL) data to data warehouse and data marts. Create, maintain and edit Structured Query Language (SQL) Server Reporting Services reports.

12. DESCRIPTION OF JOB (Check if description applies to **Official Title** ☒ or **Underfill Title** ☐):

A. ESSENTIAL FUNCTIONS/Duties and Responsibilities: (Refer to the "Guidelines for Preparing Job Descriptions" for instructions on determining Essential Functions.)

% of Time	ESSENTIAL FUNCTION
100%	Strategy & Planning - Regular and consistent attendance. - Collaborate with developers, programmers, and designers in conceptualizing and development of new software programs and applications. - Analyze and assess existing business systems and procedures. - Assist in the definition, development, and documentation of software's business requirements, objectives, deliverables, and specifications on a project-by-project basis in collaboration with internal users and departments. - Assist in defining software development project plans, including scoping, scheduling, and implementation. - Research, identify, analyze, and fulfill requirements of all internal and external program users. Acquisition & Development - Conduct research on engineering application development software products, languages, and standards in support of procurement and development efforts. - Liaise with vendors for efficient implementation of new software products or systems and for resolution of any adaptation issues. - Recommend, schedule, and perform software improvements and upgrades. Operational Management - Liaise with network administrators, systems analysts, and software engineers to assist in resolving problems

The above statements are intended to summarize the nature and level of work and typical responsibilities and duties being performed by the incumbent(s) of this job. They are not intended to be an exhaustive list of all responsibilities, duties, and tasks required of the position.

% of Time	ESSENTIAL FUNCTION
	- with software products or department software systems. - Consistently write, translate, and code software programs and applications according to specifications. - Write programming scripts to enhance functionality and/or performance of department applications as necessary. - Design, run and monitor software performance tests on new and existing programs for the purposes of correcting errors, isolating areas for improvement, and general debugging. - Administer critical analysis of test results and deliver solutions to problem areas. - Generate statistics and write reports for management and/or team members on the status of the programming process. - Develop and maintain user manuals and guidelines. - Train end users to operate new or modified programs. - Install software products for end users as required. - Manage and/or provide guidance to junior team members.
	•

B. PERIPHERAL DUTIES:

% of Time	PERIPHERAL DUTY
	•
	•

C. NAME AND TITLE OF IMMEDIATE SUPERVISOR:

Data Services Manager

D. SUPERVISION RECEIVED: (Describe the extent to which work assignments and methods are outlined, reviewed, and approved by this position's supervisor.)

Assignments received from Data Services Manager.

E. SUPERVISION EXERCISED:

Total number of employees for whom responsible, either directly or indirectly = **None**.

Direct Supervision: List the number and titles of personnel directly supervised. Specify the kind and extent of supervision exercised by indicating one or more of the following:

a. Assign duties			e. Sign or approve work		
b. Outline methods			f. Make hiring recommendations		
c. Direct work in progress			g. Prepare performance appraisals		
d. Check or inspect completed work			h. Take disciplinary action or effectively recommend such		
Number Supervised	Job Title		Extent of Supervision Exercised (Select those that apply from list above, a - h)		
0					

F. MINIMUM QUALIFICATIONS REQUIRED: (Indicate the MINIMUM qualifications required to enter the job.)

i. Education and Experience:

- Bachelor's degree in computer science, software engineering, information technology, management information systems, or a closely related field from an accredited college or university.
- Certifications in Computer Science and/or Programming in 2 or more of the languages provided below.

ii. Knowledge, Skills and Abilities:

- Proficiency in the XML tool as well as a variety of programming languages, including C, C++, Java, .NET, Visual Basic .NET (VB.NET), JavaScript Object Notation (JSON), Transact-SQL (TSQL), and C Sharp.
- Excellent understanding of coding methods and best practices.
- Knowledge of relational databases and operating systems, particularly Microsoft Server, SQL, and Oracle.

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- Thorough understanding of platforms such as Records Management Systems and Computer Aided Dispatch is desired.
- Solid working knowledge of current Internet technologies, including TCP/IP, HTTP, and SNMP.
- Knowledge of Crystal Reports and SQL Server Reporting Services (SSRS).
- Prior experience interviewing end-users for insight on functionality, interface, problems, and/or usability issues.
- Knowledge of enterprise applications, including Microsoft Productivity software, such as Microsoft Office and Microsoft Project.
- Working knowledge of Microsoft Power Business Intelligence (BI).
- Working knowledge of data extraction and analysis.
- Hands-on experience developing test cases and test plans.
- Knowledge of applicable data privacy practices and laws.

iii. Certifications, Licenses, Registrations:

Valid Wisconsin's driver's license.

One or more certifications in C, C++, Java, .NET, Visual Basic .NET (VB.NET), and/or C Sharp.

iv. Other Requirements:

13. PHYSICAL AND ENVIRONMENTAL DEMANDS: TOOLS AND EQUIPMENT USED

The Americans with Disabilities Act of 1993 requires job descriptions to provide detailed information regarding the physical demands required to perform the essential functions of a job; the conditions under which the job is performed; and the tools and equipment the employee will be required to use on the job. Reasonable accommodations may be made to enable qualified individuals to perform the essential duties and responsibilities of the job for each of the categories listed below.

G. PHYSICAL ACTIVITY OF THE POSITION: (List the physical activities that are representative of those that must be met to successfully perform the essential functions of the job).

CHECK ALL THAT APPLY:

☐	Climbing: Ascending or descending ladders, stairs, scaffolding, ramps, poles, and the like; using feet and legs and/or hands and arms. Body agility is emphasized. Check only if the amount and kind of climbing required exceeds that required for ordinary locomotion.
☐	Balancing: Maintaining body equilibrium to prevent falling when walking, standing or crouching on narrow, slippery or erratically moving surfaces. Check only if the amount and kind of balancing exceeds that needed for ordinary locomotion and maintenance of body equilibrium.
☒	Stooping: Bending body downward and forward by bending spine at the waist. Check only if it occurs to a considerable degree and requires full use of the lower extremities and back muscles.
☒	Kneeling: Bending legs at knee to come to a rest on knee or knees.
☒	Crouching: Bending the body downward and forward by bending leg and spine.
☒	Crawling: Moving about on hands and knees or hands and feet.
☒	Reaching: Extending Hand(s) and arm(s) in any direction.
☒	Standing: Particularly for sustained periods of time.
☐	Walking: Moving about on foot to accomplish tasks, particularly for long distances.
☒	Pushing: Using upper extremities to exert force in order to draw, press against something with steady force in order to thrust forward, downward or outward.
☒	Pulling: Using upper extremities to exert force in order to draw, drag, haul or tug objects in a sustained motion.
☒	Lifting: Raising objects from a lower to a higher position or moving objects horizontally from position-to-position. Check only if it occurs to a considerable degree and requires substantial use of the upper extremities and back muscles.
☒	Fingering: Picking, pinching, typing or otherwise working primarily with fingers rather than with the whole hand or arm, as in handling.
☒	Grasping: Applying pressure to an object with fingers and palm.
☒	Feeling: Perceiving attributes of objects such as size, shape, temperature or texture by touching with the skin, particularly that of the fingertips.
☒	Talking: Expressing or exchanging ideas by means of the spoken word. Those activities which demand

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☐	detailed or important instructions spoken to other workers accurately, loudly or quickly.
☒	Hearing: Perceiving the nature of sounds with no less than a 40 db loss. Ability to receive oral communication and make fine discriminations in sound.
☐	Repetitive Motions: Substantial movements (motions) of the wrist, hands, and/or fingers.
☒	Driving: Minimum standards required by State Law (including license).

H. PHYSICAL REQUIREMENTS OF THE POSITION: (List the physical requirements that are essential functions of the job.)

CHECK ONE:

☐	Sedentary Work: Exerting up to 10 pounds of force occasionally and/or negligible amount of force frequently or constantly to lift, carry, push, pull or otherwise move objects. Sedentary work involves sitting most of the time. Jobs are sedentary if walking and standing are required only occasionally and all other sedentary criteria are met.
☒	Light Work: Exerting up to 10 pounds of force occasionally and/or negligible amount of force constantly to move objects. If the use of arm and/or leg controls requires exertion of forces greater than that for sedentary work and the worker sits most of the time, the job is rated for Light Work.
☐	Medium Work: Exerting up to 50 pounds of force occasionally and/or up to 20 pounds of force frequently, and/or up to 10 pounds of force constantly to move objects.
☐	Heavy Work: Exerting up to 100 pounds of force occasionally, and/or up to 50 pounds of force frequently, and/or up to 20 pounds of force constantly to move objects.
☐	Very Heavy Work: Exerting in excess of 100 pounds of force occasionally, and/or in excess of 50 pounds of force frequently, and/or in excess of 20 pounds of force constantly to move objects.

I. VISUAL ACUITY REQUIREMENTS: (List the visual acuity requirements that are essential functions of the job.)

CHECK ONE:

☐	Operators (Electronic Equipment), Inspection, Close Assembly, Clerical, Administrative: This is a minimum standard for use with those whose job requires work done at close visual range (i.e. preparing and analyzing data and figures, accounting, transcription, computer terminal, extensive reading, visual inspection involving small parts, operation of machines, using measurement devices, assembly or fabrication of parts).
☒	Machine Operators, Mechanics, Skilled Tradespeople: This is a minimum standard for use with those whose work deals with machines where the seeing job is at or within arm's reach. This also includes mechanics and skilled tradespeople and those who do work of a non-repetitive nature such as carpenters, technicians, service people, plumbers, painters, mechanics, etc. (If the machine operator also inspects, check the "Operators" box.)
☐	Mobile Equipment Operators: This is a minimum standard for use with those who operate cars, trucks, forklifts, cranes, and high lift equipment.
☐	Other: This is a minimum standard based on the criteria of accuracy and neatness of work for janitors, sweepers, etc.

J. THE CONDITIONS THE WORKER WILL BE SUBJECT TO IN THIS POSITION:

List the environmental/working conditions to which the employee may be exposed while performing the essential functions of the job. Include scheduling considerations such as on-call for emergencies, rotating shift, etc. **Approximate Percentage of time performing field work: 10%**

CHECK ALL THAT APPLY:

☐	None: The worker is not substantially exposed to adverse environmental conditions (such as typical office or administrative work).
☐	The worker is subject to inside environmental conditions: Protection from weather conditions but not necessarily from temperature changes (i.e. warehouses, covered loading docks, garages, etc.)
☐	The worker is subject to outside environmental conditions: No effective protection from weather.
☐	The worker is subject to extreme cold: Temperatures below 32 degrees for period of more than one hour.
☐	The worker is subject to extreme heat: Temperatures above 100 degrees for periods of more than one hour.
☐	The worker is subject to noise: There is sufficient noise to cause the worker to shout in order to be heard above the surrounding noise level.
☐	The worker is subject to vibration: Exposure to oscillating movements of the extremities or whole body.
☐	The worker is subject to hazards: Includes a variety of physical conditions, such as proximity to moving mechanical parts, electrical current, working on scaffolding and high places or exposure to chemicals.
☐	The worker is subject to atmospheric conditions: One or more of the following conditions that affect the respiratory system or the skin: Fumes, odors, dust, mists, gases or poor ventilation.
☐	The worker is subject to oil: There is air and/or skin exposure to oils and other cutting fluids.

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☐ The worker is required to wear a respirator.

K. MACHINE, TOOLS, EQUIPMENT, ELECTRONIC DEVICES, SOFTWARE, ETC. USED BY POSITION:

List equipment needed to successfully perform the essential functions of the job. Reasonable accommodations may be made to enable qualified individuals with disabilities to perform the essential functions.)

CHECK ALL THAT APPLY:

☒ Camera and photographic equipment	☒ Office Equipment (desk, chair, telephone, etc.)
☒ Cleaning supplies	☒ Office supplies (pens, staplers, pencils, etc.)
☐ Commercial vehicle	☒ Packing materials (boxes, shrink wrap, etc.)
☒ Data processing equipment	☒ PC equipment (monitor, keyboard, printer, etc.)
☒ Handcart	☒ PC software
☐ Hand tools <i>(please list):</i>	
☒ Office Machines <i>(check all that apply):</i> ☒ Copier ☒ Facsimile ☒ Calculator ☐ Cash register	
☒ Other <i>(please list):</i> radio, belt	

L. SUPPLEMENTARY INFORMATION: (Indicate any other information which further explains the importance, difficulty, or uniqueness of the position, such as its scope of responsibility related to finances, equipment, people, information, etc. Also indicate success factors such a personal characteristics that contribute to an individual's ability to perform well in the job, and any other special considerations.)

- Able to communicate effectively with non-technical staff and with members of interdisciplinary teams.
- Flexible and adaptable in regards to learning and understanding new technologies.
- Strong written, oral, and interpersonal communication skills.
- Ability to conduct research into software-related issues and products.
- Highly self-motivated and directed.
- Keen attention to detail.
- Proven analytical and problem-solving abilities.
- Ability to effectively prioritize and execute tasks in a high-pressure environment.
- Ability to work both independently and in a team-oriented, collaborative environment.
- On-call availability for 10 days per month.
- Overtime hours may be required to meet project deadlines.
- Sitting for extended periods of time.
- Dexterity of hands and fingers to operate a computer keyboard, mouse, and other devices.
- Able to lift computer drives, monitors, and other peripherals.
- Some travel may be required for the purpose of off-site software installation.

M. I believe that the statements made above in describing this job are complete and accurate.

Signature of Department Head or Designated Representative

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