Programmer Analyst II (Trenton)

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RUTGERS
THE STATE UNIVERSITY
OF NEW JERSEY

Job Category

Staff & Executive - Information Technology

Overview

RUTGERS CANCER INSTITUTE VISION, MISSION, AND CORE VALUES:

VISION:

Through our science, our evidence-based actions, our openness, and our respect for those we serve, we will advance cancer-focused research worldwide and reduce the burden of cancer in our catchment area. By engaging with and empowering our exceptionally diverse populations, and addressing their questions and fears, we will engender hope for cancer patients and their families and play a critical role in strengthening the fabric of our communities by gaining and protecting their trust and providing access to the outstanding oncology care each person deserves.

MISSION:

Our mission is to accelerate scientific discovery focused on understanding cancer, innovating cancer treatment, and improving cancer prevention; to provide outstanding, novel, and compassionate patient care; to provide evidence-based and culturally informed education to physicians, nurses, researchers, staff, and the community; and to achieve cancer health equity in our state through outreach to and engagement of our extraordinarily diverse communities.

CORE VALUES:

Curiosity and Discovery: encouraging an environment of continuous inquiry, creativity, and innovation to generate new knowledge

Integrity: earning the trust of those we serve and each other through honesty, transparency, accountability, and continuous reflection

Collaboration: approaching all opportunities with an understanding that together we are better and can achieve more; promoting and maintaining an environment of teamwork and shared knowledge

Respect and Caring: consistently demonstrating caring, compassion, and respect through our words and actions
Perseverance: maintaining an unwavering commitment to our mission; embracing change, overcoming obstacles, and creating and recreating the path to achieve our goals

Posting Summary

Rutgers, The State University of New Jersey is seeking a Programmer Analyst II within the IST Central Core Department at the Rutgers Cancer Institute. Under direction of the IST Analyst I, the Programmer/Analyst II performs analysis, design, programming, testing, debugging, and documentation of programs to solve medium to complex business problems at the New Jersey State Cancer Registry. This role applies conversions and enhancements to cancer surveillance and research systems and participates in the development of detailed programming/system specifications, including policies and procedures. The individual interfaces with internal and external users, database administrators of cancer surveillance software and tools, and other information technology departments, including but not limited to the New Jersey State Office of Information Technology (OIT), the Office of Information Technology Services (OITS), and the Rutgers Cancer Institute's Bioinformatics unit, to identify system problems and propose solutions. The position also develops project plans and training programs. Essential Duties and Responsibilities include the following:

- Develops and/or conducts training programs as required.
- Develops and manages project plans.
- Interacts with users and other related areas to gather requirements and compile data.
- Designs and develops application programs from analysis to implementation.
- Develops documentation, formulates, and applies policies and procedures.
- Maintains awareness of emerging Artificial Intelligence (AI) technologies, tools, and frameworks, including Machine Learning (ML), and Natural Language Processing (NLP), as well as other industry technology trends, to recommend innovative solutions.
- Collaborates with business stakeholders to identify opportunities for AI/ML adoption and translate requirements into technical solutions.
- Assists in or manages the installation of software and/or hardware components.
- Performs technical resources planning and support.
- Maintains familiarity with subsystems, including an ability to generate queries and analytic programs using common programming languages (e.g., SQL, SAS).
- Acts as liaison between information technology departments/units and end user communities.
- Develops and applies integrated application, system, or network standards as required.
- Evaluates and recommends hardware and software solutions.
- Assists in problem determination and resolution.
- Performs system tuning, monitoring, and trend analysis.

FLSA: Exempt

Grade: 28S

Minimum Salary

81155.000

Mid Range Salary

97671.000

Maximum Salary

116172.000

Offer Information

The final salary offer may be determined by several factors, including, but not limited to, the candidate's qualifications, experience, and expertise, and availability of department or grant funds to support the position. We also take into consideration market benchmarks, if and when appropriate, and internal equity to ensure fair compensation relative to the university's broader compensation structure. We are committed to offering competitive and flexible compensation packages to attract and retain top talent.

Benefits

Rutgers provides a comprehensive benefits package to eligible employees. The specific benefits vary based on the position and may include:

- Medical, prescription drug, and dental coverage
- Paid vacation, holidays, and various leave programs
- Competitive retirement benefits, including defined contribution plans and voluntary tax-deferred savings options
- Employee and dependent educational benefits (when applicable)
- Life insurance coverage
- Employee discount programs

Position Status: Full Time

Standard Hours: 37.50

Work Arrangement

This position requires a fully on-site work arrangement.

Union Description: HPAE 5094

Payroll Designation: PeopleSoft

Terms of Appointment: Staff - 12 month

Position Pension Eligibility: ABP

Minimum Education and Experience

- Bachelor's Degree in Computer Science, Engineering or related discipline. Four (4) years of progressive experience and increasing responsibility in related technology field.
- Equivalent experience, education and/or training may be substituted for the education requirements.

Required Knowledge, Skills, and Abilities

- General PC knowledge and understanding of distributed computing environments and integrated communication concepts required.
- Must have an understanding of SQL and other programming tools, methodologies and concepts; a demonstrated ability to identify and solve complex problems; and, the ability to develop and manage short- and long-term project work-plans.
- Familiarity with artificial intelligence (AI) concepts, including machine learning (ML), and natural language processing (NLP).
- Must be computer literate with proficiency in Microsoft Word, Excel, Access, and PowerPoint.
- Effective oral and written communication skills.
- Ability to function in a team environment.
- Demonstrated interpersonal skills working in a service-oriented environment.
- This position is based in Trenton, NJ with regular travel to New Brunswick, NJ is required.
- Must have the ability and flexibility to travel to various worksites.

Preferred Qualifications

- Proficiency in programming languages and frameworks commonly used for AI development (e.g., Python, R, TensorFlow, PyTorch, scikit-learn) preferred.
- Familiarity of complex information systems architecture, electronic health data, transmission standards for electronic health data, information security standards, relational databases, and analytic software tools such SAS preferred.
- Knowledge of cancer surveillance processes, cancer epidemiology, surveillance research, and cancer registry data a plus.

Physical Demands and Work Environment

PHYSICAL DEMANDS:

- Standing, sitting, walking, talking and hearing.

- No special vision requirements.
- Lifting up to 25 lbs.

WORK ENVIRONMENT:

Office environment. Moderate noise.

Special Conditions

This position is based in Trenton, NJ with regular travel to New Brunswick, NJ is required. Must have the ability and flexibility to travel to various worksites.

Posting Open Date: 02/05/2026

Regional Campus: Rutgers Biomedical and Health Sciences (RBHS)

Home Location Campus: Downtown New Brunswick

City

New Brunswick

State

NJ