



NEW YORK CITY FIRE DEPARTMENT JOB VACANCY NOTICE

CIVIL SERVICE TITLE Computer Systems Manager, M-I	Title Code # 10050
OFFICE TITLE Director of Operations Research	SALARY \$53,051- \$122,000
BUREAU/DIVISION/UNIT Management Analysis & Planning	LOCATION 9 MetroTech Center, Brooklyn, New York

JOB DESCRIPTION

Under general direction, the Director of Operations Research will work with the Bureau of Management Analysis and Planning to lead a comprehensive risk-based research/analytics strategy that meets the needs of the New York City Fire Department. The director will focus on the application of research to the FDNY's initiative for evidence-based practice; interact with Fire and EMS operations in order to enhance systems, identify research needs and to provide an appropriate analytic response will be core to the position. The key responsibilities include management, supervision and training of OR analysts; planning and execution of research projects; reporting and authoring findings where appropriate and instituting technical documentation and model validation processes; developing the scope, feasibility and timelines for identified research projects and is responsible for working closely with fellow MAP units including the Data Quality unit, GIS and Strategic Planning on joint project; requires expert ability in analysis, forecasting and modeling; on-demand, ad-hoc analysis; team work; excellent articulation of scientific processes and results to internal and external stakeholders; developing research ties with academia, partnering agencies and other organizations where applicable and assisting with the development of proposals for future funding initiatives when necessary.

QUALIFICATION REQUIREMENTS:

1. A master's degree in computer science from an accredited college and three years of progressively more responsible, full-time, satisfactory experience using information technology in computer applications programming, systems programming, computer systems development, data telecommunications, database administration, planning of data/information processing, user services, or area networks at least 18 months of this experience must have been in an administrative, managerial or executive capacity in the areas of computer applications programming, systems programming, computer systems development, data telecommunications, data base administration, or planning of data processing or in the supervision of staff performing these duties; or
2. A baccalaureate degree from an accredited college and four years of experience as described in "1" above; or
3. A four-year high school diploma or its educational equivalent approved by a State's department of education or recognized accrediting organization and six years of experience as described in "1" above; or
4. A satisfactory combination of education and experience equivalent to "1", "2" or "3" above. However, all candidates must have at least a four-year high school diploma or its educational equivalent approved by a State's department of education or recognized accrediting organization and must possess at least three years of experience as described in "1" above, including the 18 months of administrative, managerial, executive or supervisory experience as described in 1

PREFERRED SKILLS:

Advanced degree (Masters required, PhD preferred) in Operations Research, Statistics, Management Science, Engineering, Economics, Fire Science or a closely related field that includes a significant amount of research methods and statistical analysis. Knowledge of relevant industry standards, best-practices and scientific literature is essential. Proven track record conducting and managing high-level quantitative research/ mathematical modelling (3-5 years direct experience). Expertise working with appropriate software and BI tools including VB, R, C++, C#, STATA, Hadoop, SQL, Oracle Discoverer, Palantir data integration, GIS, etc. Capable and comfortable with executing research under tight timelines and pressure. Contributions to research in related fields through peer-reviewed talks and publications a plus.

TO APPLY:

NON-CITY EMPLOYEES/EXTERNAL CANDIDATES PLEASE GO TO <https://a127-jobs.nyc.gov/>.

CITY EMPLOYEES MUST APPLY VIA EMPLOYEE SELF SERVICE <https://a127-ess.nyc.gov/>. REFER TO JOB ID # **224037**.

DATED: November 27, 2015

***POST UNTIL*:** Until filled

*"FDNY is ranked as the top place to work among gov't agencies; and 17th overall among 500 employers among large U.S. companies, nonprofits, gov't agencies, and U.S. divisions of multi-national."
-Forbes magazine, on "America's Best Employers 2015"*

The Fire Department is an Equal Opportunity Employer.