

New York State Department of Civil Service
DIVISION OF CLASSIFICATION & COMPENSATION

Classification Standard

Occ. Code 0815910

Information Technology Architect 1, Grade 25	0815910
Information Technology Architect 2, Grade 27	0815920
Information Technology Architect 3, M-8	0815930

Brief Description of Class Series

Information Technology Architects lead IT architecture projects which impact all State agencies. The specialties within the series are: Artificial Intelligence Architecture; Cloud Architecture; Data Architecture; Enterprise Architecture; Business Architecture; Solution Architecture; Networking Architecture; Operations Management; Product Management; Application Development, Security and Operations; Service-Oriented Management; Infrastructure; Information Technology Engineering; Domain Business Knowledge; and Operational Technology.

These positions are primarily classified at the Office of Information Technology Services (ITS).

Distinguishing Characteristics

All positions are in the non-competitive jurisdictional class.

Information Technology Architects at various levels have similar duties. Factors that determine the number and level classified include: level of responsibility; depth and breadth of the IT programs and systems supported or administered; and number, level, and composition of subordinate staff. Specific duties performed will vary depending on the assigned project and program area. Details about each specialty can be found at the end of this section.

Information Technology Architect 1: advanced performance level; under the direction of an Information Technology Architect 2, performs senior technical duties within the project lifecycle of their program area.

Information Technology Architect 2: supervisory level; under the direction of an Information Technology Architect 3, designs and oversees the implementation of technical solutions within a major program area; and supervises multiple Information Technology Architects 1.

Information Technology Architect 3: managerial level; reporting to a New York State Deputy Chief Information Officer or other higher-level staff, leads multiple IT architecture teams each led by an Information Technology Architect 2.

Information Technology Architects at various levels are only classified within the specialty areas listed below.

- Artificial Intelligence (AI) Architecture focuses on building new and improving existing AI systems models and strategies, designing AI application management frameworks for secure and compliant functionality, and implementing effective AI management processes.
- Cloud Architecture focuses on the strategic and continuous improvement of NYS agencies' cloud architecture models, assessing NYS' cloud infrastructure, planning future cloud databases, optimizing existing cloud-based applications, and implementing solutions which will help agencies satisfy their communication, data storage, security, and networking needs.
- Data Architecture focuses on the organization and design of how data is collected, transformed, integrated, stored, and used by every NYS agency and the constituents which they serve.
- Enterprise Architecture focuses on planning and executing the transformation and upgrades of NYS agencies' business activities and processes in alignment with their respective strategies and goals.
- Business Architecture focuses on planning and executing business transformation, and in the context of the overall structure of the business, the broad enterprise architecture of NYS agencies, ensuring the alignment of projects and requirements to business strategy and architecture.
- Solution Architecture focuses on the development of enterprise-wide infrastructure plans and projects to achieve stakeholder goals, improve systems, and manage solutions.
- Networking Architecture focuses on the design and deployment of cloud network connectivity for NYS agencies.
- Other specialty areas include: Operations Management; Product Management; Application Development, Security and Operations; Service-Oriented Management; Infrastructure; Information Technology Engineering; Domain Business Knowledge; and Operational Technology.

Illustrative Duties

Information Technology Architect 1

Provides senior technical leadership throughout a project's lifecycle within their area of specialty.

- Plans, tracks, and schedules software deliverables.
- Makes decisions regarding selection and utilization of software and platforms.
- Develops and implements integration standards and strategies.
- Locates and directs solutions to challenges involving hardware and software interfaces.
- Identifies and resolves issues within software.

Develops applications and programs for State agencies.

- Optimizes applications to ensure they meet the needs of the program area and the needs of the State.
- Documents and records all aspects of applications or software.
- Collaborates with IT security to secure data and address issues.

Information Technology Architect 2

Performs the following duties in addition to those described for Information Technology Architect 1 with considerable independence.

Serves as a team lead supervising multiple Information Technology Architects 1.

Collaborates with cross-functional teams to analyze requirements, architect solutions and ensure successful delivery at the end of the project lifecycle.

- Provides technical leadership and guidance to project teams.
- Designs end-to-end technical solutions that address business requirements and align with architecture principals and standards.
- Identifies technical risks and develops mitigation strategies.
- Collaborates with development teams to ensure that technical solutions are implemented according to design specifications.
- Identifies opportunities to improve efficiency and solution quality.
- Ensures that solutions adhere to security, compliance and regulatory requirements.
- Works closely with user experience, business analysts and business stakeholders to ensure alignment.
- Engages with stakeholders to communicate technical solutions, gather feedback and address concerns.

Evaluates new and emerging technologies for inclusion in the State catalog.

Information Technology Architect 3

Performs the following duties in addition to those described for Information Technology Architect 1 and 2.

Supervises multiple teams led by Information Technology Architects 2.

Serves as a chair of an ITS Board for a program area and liaises with client agencies.

Leads development and management of their program area.

- Formulates and implements statewide technology policies and standards.
- Conducts strategic technology evaluations and manages proof-of-concept projects.
- Offers strategic guidance to ITS and client agencies.
- Ensures compliance with relevant regulations and industry standards.
- Works with operational teams to develop business metrics.

Manages relevant documentation, catalogs and procurement for program area.

- Collaborates on and oversees the ITS solution architecture modeling suite, ensuring integration with the ITS Service Management System.
- Collaborates across ITS Divisions and Bureaus to maintain and evolve technical roadmaps.
- Oversees maintenance of Solution Architecture Manual and Technology Service Catalog.
- Administers the Desktop Software Lifecycle Registry and Application Inventory.
- Analyzes Plan to Procure requests.

Minimum Qualifications

Information Technology Architect 1

Non-competitive: Six years* of information technology experience, four years of which must be in the appropriate specialty**.

Information Technology Architect 2

Non-competitive: Seven years* of information technology experience, five years of which must be in the appropriate specialty**.

Information Technology Architect 3

Non-competitive: Nine years* of information technology experience, six years of which must be in the appropriate specialty**, and three years must be at the supervisory level or one year at the managerial level leading and developing IT architecture programs.

*Substitutions: Associate's degree with 15 semester credit hours in computer science or related field substitutes for one year of general information technology experience. Candidates in a bachelor's degree program with at least 15 semester credit hours in computer science or related field can substitute such credits for one year of general information technology experience.

Bachelor's degree in any field including or supplemented by 15 semester credit hours in computer science or related field substitutes for three years of general information technology experience. Any bachelor's degree substitutes for two years of general information technology experience.

Master's degree or higher in computer science or related field substitutes for one year of general information technology experience.

**Specialty includes experience as an IT architect in one or more of the following: artificial intelligence; cloud; data; enterprise; business; solution; networking; operations management; product management; application development, security and operations; service-oriented management; infrastructure; information technology engineering; domain business knowledge; and operational technology.

Note: Classification Standards illustrate the nature, extent, and scope of duties and responsibilities of the classes they describe. Standards cannot and do not include all of the work that might be appropriately performed by a class. The minimum qualifications above are those which were required for appointment at the time the Classification Standard was written. Please contact the Division of Staffing Services for current information on minimum requirements for appointment or examination.

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