

Class Concept

This is administrative and managerial work in directing a staff of operating systems software programmers in the development, installation, modification, tailoring, and tuning, and maintenance of systems software and related products. Work involves the application of high level systems software expertise and technical knowledge of hardware functions to all aspects of computer operations and computer systems. Employees direct the work of operating systems software programmers in integrating vendor supplied software, debugging problems related to computer function, integrating a variety of peripheral and communication equipment with a central processor, and advising systems and programming staff in systems design as it relates to hardware and software capability. Employees determine long-range plans for the upgrade or replacement of the various hardware and software systems. Employees participate on the management team to develop standards for system performance and functionality.

Recruitment Standards

Knowledge, Skills, and Abilities

- Thorough knowledge of the technical aspects related to the functions and capabilities of computer systems and related software.
- Thorough knowledge of the operating systems, layered products, security system, and communications system, and their interrelationships and functionality.
- Thorough knowledge of computer programming languages and techniques.
- Ability to direct, design and implement project.
- Ability to analyze software bugs and recommend or make corrective action.
- Thorough knowledge of communications and connectivity of computer systems and associated software.
- Ability to establish and maintain effective working relationships with other staff and vendor software specialists.
- Ability to communicate effectively in oral and written form with a wide range of clients and vendors.
- Ability to plan and direct the work of others.

Minimum Education and Experience

Bachelor's degree in computer science, computer engineering or a closely related field from an appropriately accredited institution and five years of progressive experience in systems software programming; or an equivalent combination of education and experience.