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- 1) Individual positions will typically have most, but not necessarily all, of the Duties & Responsibilities listed
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Grade	IT Training	User Support	Network Engineer	Systems Management	Applications Programming	Applications Development
55					-Applications Programmer I	
56	-IT Training Professional I	-User Support I	-Network Administrator I	-Systems Administrator I	-Applications Programmer II	-Applications Programmer Analyst I
57	-IT Training Professional II -IT Training Management I	-User Support II -User Support Management I	-Network Administrator II	-Systems Administrator II -Systems Manager I	-Applications Programmer III	-Applications Programmer Analyst II
58	-IT Training Management II	-User Support Management II	-Network Administrator III -Network Manager I	-Systems Administrator III -Systems Manager II		-Applications Programmer Analyst III
59	-IT Training Management III	-User Support Management III	-Network Manager II	-Systems Manager III		-Applications Programming Analyst Management I

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IT Job Function Table Continued

Grade	Web Administrator	Web Development	Digital Imaging & New Media Development	Business Analyst	Database Administrator	Data Warehousing	Project Management
55							
56	-Web Administrator I	-Web Development I	-Digital Imaging and New Media Development Officer I	-Business Analyst I	-Database Administrator II		
57	-Web Administrator II -Web Administrator Management I	-Web Development II	-Digital Imaging and New Media Development Officer II	-Business Analyst II	-Database Administrator III	-Data Warehousing I	-IT Project Manager I
58	-Web Administrator Management II	-Web Development Management I	-Digital Imaging and New Media Development Officer III	-Business Analyst III	-Database Administrator IV	-Data Warehousing II	-IT Project Manager II
59			-Digital Imaging and New Media Management I	-Business Analyst IV -Business Analyst Management I	-Database Administrator V	-Data Warehousing III	-IT Project Manager III

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IT Training Family

Level	Function/ Roles	Experience/ Education (Minimum Required)	Typical Duties and Responsibilities (Cumulative from level to level in each job family)	Impact/Scope	Supervision
56E* or 56N	IT Training Professional I	Bachelor's degree 3+ years of experience in instructional design, curriculum development, assessment and project management skills Thorough knowledge of windows/NT and desktop applications	 Applies knowledge of technical training to assignments of moderate complexity Regularly determines project deadlines within department Designs training presentations Conducts employee training events Researches alternative outside training programs 	IMPACT Moderate impact on operations, resources, or University's reputation SCOPE Provides IT training for unit or school	RECEIVED Under General Direction: Within this job, the incumbent normally performs regular assignments using own judgment and following department / university policy, while keeping supervisor informed as necessary. Receives general guidance on new projects as to methods, procedures and desired end results. The incumbent has discretion to make decisions within the scope of their responsibilities. Complex assignments are usually reviewed upon completion. GIVEN Individual Contributor: Works independently or as part of a team to achieve results.

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IT Training Family

Level	Function/ Roles	Experience/ Education (Minimum Required)	Typical Duties and Responsibilities (Cumulative from level to level in each job family)	Impact/Scope	Supervision
57 E	IT Training Professional II	Bachelor's degree in computer science 5+ years of experience in instructional design, curriculum development, assessment and project management skills	 Determines project deadlines and objectives with management Assesses company training needs and develops training materials and custom curriculum Applies advanced knowledge of technical training and has extensive knowledge of other related disciplines/processes Recommends new solutions to problems 	IMPACT Moderate impact on operations, resources, or University's reputation SCOPE Provides advanced IT training for a unit or school	RECEIVED Under Limited Direction: Within this job, the incumbent performs regular assignments using own judgment. Determines methods and procedures on new projects. Held accountable for end results. Responsible for determining when supervisor or others should be consulted. The incumbent has discretion to make decisions within the scope of their responsibilities. Complex assignments are occasionally reviewed upon completion. GIVEN Individual Contributor: Works independently or as part of a team to achieve results.

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IT Training Family

Level	Function/ Roles	Experience/ Education (Minimum Required)	Typical Duties and Responsibilities (Cumulative from level to level in each job family)	Impact/Scope	Supervision
57 E	IT Training Management I	Bachelor's degree in computer science 5+ years of experience in instructional design, curriculum development, assessment and project management skills	 Oversees all IT training programs Conducts needs assessment and develops training programs Collaborates with developers and programmers to correct and prevent system problems. Remains current in new developments and technology Solicits feedback regarding strategy and tactics Develops train the trainer programs Provide expertise, consulting and guidance to staff members 	IMPACT Moderate impact on operations, resources, or University's reputation SCOPE Manages an IT Training unit within a school/unit	RECEIVED Under Limited Direction: Within this job, the incumbent performs regular assignments using own judgment. Determines methods and procedures on new projects. Held accountable for end results. Responsible for determining when supervisor or others should be consulted. The incumbent has discretion to make decisions within the scope of their responsibilities. Complex assignments are occasionally reviewed upon completion. GIVEN Supervises: Supervises work and processes, assigns work, typically has primary responsibility for evaluating performance and performance management, effectively recommends hiring and firing decisions. AND/OR Manages: Manages people and policies, allocates personnel and resources for given projects, full hire/fire authority, has primary responsibility for performance management and career development of employees, sets policy/standards within an area.

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IT Training Family

	Function/	Experience/ Education	Typical Duties and Responsibilities		Supervision
Level	Roles	(Minimum Required)	(Cumulative from level to level in each job family)	Impact/Scope	
58 E	IT Training Management II	Bachelor's degree in computer science Master's degree preferred 7+ years of experience in instructional design, curriculum development, assessment and project management skills	 Manages the development and delivery of enduser training and documentation Manages operational and strategic activities of training and support team Identifies training needs, designs and develops appropriate training courses and materials Assesses effectiveness of training programs and develops improvements to training courses and materials Builds strategic alliances for major project, function or department results Prepares reports for upper management to highlight progress, issues etc. Pursues opportunities for new services 	IMPACT Significant impact on operations, resources, or University's reputation SCOPE Manages a medium sized IT Training unit within a school/unit	Under Limited Direction: Within this job, the incumbent performs regular assignments using own judgment. Determines methods and procedures on new projects. Held accountable for end results. Responsible for determining when supervisor or others should be consulted. The incumbent has discretion to make decisions within the scope of their responsibilities. Complex assignments are occasionally reviewed upon completion. GIVEN Manages: Manages people and policies, allocates personnel and resources for given projects, full hire/fire authority, has primary responsibility for performance management and career development of employees, sets policy/standards within an area.

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IT Training Family

	Function/	Experience/ Education	Typical Duties and Responsibilities		Supervision
Level	Roles	(Minimum Required)	(Cumulative from level to level in each job family)	Impact/Scope	
59 E	IT Training	Bachelor's degree in		IMPACT	RECEIVED
	Management	computer science	The Duties and Responsibilities at this level are similar to	Significant	Under Limited Direction: Within this
	III		those at the prior level. This level varies based on the	impact on	job, the incumbent performs regular
		Master's degree preferred	other measures listed.	operations,	assignments using own judgment.
				resources, or	Determines methods and procedures on
		8+ years of experience in		University's	new projects. Held accountable for end
		instructional design,		reputation	results. Responsible for determining
		curriculum development,			when supervisor or others should be
		assessment and project		SCOPE	consulted. The incumbent has
		management skills		Manages a large	discretion to make decisions within the
				IT Training unit	scope of their responsibilities. Complex
				within a	assignments are occasionally reviewed
				school/unit	upon completion.
					GIVEN
					Manages:
					Manages people and policies, allocates
					personnel and resources for given
					projects, full hire/fire authority, has
					primary responsibility for performance
					management and career development of
					employees, sets policy/standards within
					an area.

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User Support Family

	User Support Family								
	Function/	Experience/ Education	Typical Duties and Responsibilities		Supervision				
Level	Roles	(Minimum Required)	(Cumulative from level to level in each job family)	Impact/Scope					
56E* or 56N	User Support I	Bachelor's degree preferred 3+ years of IT experience Thorough knowledge of windows/NT and desktop applications	 Analyzes and solves complex customer problems, up to and including third tier, involving multiple applications and/or platforms or database interactions and without manuals or guidelines to follow and without review.	IMPACT Moderate impact on operations, resources, or University's reputation SCOPE Provides IT support for unit or school	Under General Direction: Within this job, the incumbent normally performs regular assignments using own judgment and following department / university policy, while keeping supervisor informed as necessary. Receives general guidance on new projects as to methods, procedures and desired end results. The incumbent has discretion to make decisions within the scope of their responsibilities. Complex assignments are usually reviewed upon completion. GIVEN Individual Contributor: Works independently or as part of a team to achieve results.				

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User Support Family

	Function/	Experience/ Education	Typical Duties and Responsibilities		Supervision
Level	Roles	(Minimum Required)	(Cumulative from level to level in each job family)	Impact/Scope	
57 E* or 57N	User Support II	Bachelor's degree in computer science preferred 5+ years of IT experience Advanced knowledge of windows/NT and desktop applications	 Develops solutions to complex problems where analysis of situations or data requires an in-depth evaluation of multiple factors across multiple platforms Participates in defining standards and modeling for desktop applications Effectively challenges current processes and develops novel approaches Determines project deadlines and objectives with management Represents unit on University-wide technology committees Provides support of complex applications and special projects Acts as principle liaison with out-sourced service providers Implements projects in support of computer systems Supports and trains users on hardware systems and software applications Advises and makes recommendations on equipment purchases Provides statistics for measuring technical services 	IMPACT Moderate impact on operations, resources, or University's reputation SCOPE Provides advanced IT work for a unit or school	Under General Direction: Within this job, the incumbent normally performs regular assignments using own judgment and following department / university policy, while keeping supervisor informed as necessary. Receives general guidance on new projects as to methods, procedures and desired end results. The incumbent has discretion to make decisions within the scope of their responsibilities. Complex assignments are usually reviewed upon completion. GIVEN Individual Contributor: Works independently or as part of a team to achieve results.

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User Support Family

Level	Function/ Roles	Experience/ Education (Minimum Required)	Typical Duties and Responsibilities (Cumulative from level to level in each job family)	Impact/Scope	Supervision
57 E	User Support Management I	Bachelor's degree in computer science 5+ years of IT experience Advanced knowledge of windows/NT and desktop applications	 Manages the planning and implementation of large IT projects that have significant impact on the management of the business Manages assigned help desk and desktop support specialists Directs and prioritizes response to all customer calls, alarms and emergency notifications Advises, teaches and provides guidance and support in the use and selection of appropriate information technologies Ensures high-speed response to correct system problems and takes action to prevent reoccurrence Ensures that security procedures are implemented and enforced Negotiates the desktop and laptop lease agreements Manages the department budget Provide expertise, consulting and guidance to staff members 	IMPACT Moderate impact on operations, resources, or University's reputation SCOPE Typically manages IT Support function within a small tub or as part of a larger unit	RECEIVED Under Limited Direction: Within this job, the incumbent performs regular assignments using own judgment. Determines methods and procedures on new projects. Held accountable for end results. Responsible for determining when supervisor or others should be consulted. The incumbent has discretion to make decisions within the scope of their responsibilities. Complex assignments are occasionally reviewed upon completion. GIVEN Supervises: Supervises work and processes, assigns work, typically has primary responsibility for evaluating performance and performance management, effectively recommends hiring and firing decisions. AND/OR Manages: Manages people and policies, allocates personnel and resources for given projects, full hire/fire authority, has primary responsibility for performance management and career development of employees, sets policy/standards within an area.

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User Support Family

	Function/	Experience/ Education	Typical Duties and Responsibilities		Supervision
Level	Roles	(Minimum Required)	(Cumulative from level to level in each job family)	Impact/Scope	
Level 58 E	Roles User Support Management II			Impact/Scope IMPACT Significant impact on operations, resources, or University's reputation SCOPE Typically manages IT Support function within a medium tub	RECEIVED Under Limited Direction: Within this job, the incumbent performs regular assignments using own judgment. Determines methods and procedures on new projects. Held accountable for end results. Responsible for determining when supervisor or others should be consulted. The incumbent has discretion to make decisions within the scope of their responsibilities. Complex assignments are occasionally reviewed upon completion. GIVEN Manages: Manages people and policies, allocates personnel and resources for given projects, full hire/fire authority, has primary responsibility for performance management and career development of employees, sets policy/standards within an

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User Support Family

	Function /	Experience/ Education	Typical Duties and Responsibilities		Supervision
Level	Roles	(Minimum Required)	(Cumulative from level to level in each job family)	Impact/Scope	
59 E	User Support Management III	Bachelor's degree in computer science Master's degree preferred 8+ years of IT experience; including some in management Advanced knowledge of IT applications	 Builds strategic alliances for major project, function or department results Negotiates and influences within and beyond the project, function or department Pursues opportunities for new services 	IMPACT Significant impact on operations, resources, or University's reputation SCOPE Typically manages IT Support function within a large tub	RECEIVED Under Limited Direction: Within this job, the incumbent performs regular assignments using own judgment. Determines methods and procedures on new projects. Held accountable for end results. Responsible for determining when supervisor or others should be consulted. The incumbent has discretion to make decisions within the scope of their responsibilities. Complex assignments are occasionally reviewed upon completion. GIVEN Manages: Manages people and policies, allocates personnel and resources for given projects, full hire/fire authority, has primary responsibility for performance management and career development of employees, sets policy/standards within an

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Network Engineer Family

	etwork Engineer	i			
	Function/	Experience/ Education	Typical Duties and Responsibilities		
Level	Roles	(Minimum Required)	(Cumulative from level to level in each job family)	Impact/Scope	Supervision
56E* or 56N	Network Administrator I	Bachelor's degree preferred 3+ years of IT experience Thorough knowledge of networks	 Provides assessment of network application needs Provides network modeling and simulation consulting to further clarify client needs Engineers router-based high-speed technology network transports to deliver application functionality Evaluates and implements networking technologies Participates in the development of technical and security standards, interface applications, and network problem resolutions Serves as adviser, analyzing departmental needs and evaluating alternative solutions Recommends to senior management network hardware and software upgrades Monitors network traffic and make necessary recommendations for additional resources or hardware Participates in network planning, engineering, and architecture Manages all network hardware and software components inventory and documentation Manages the firewall and monitors security 	IMPACT Moderate impact on operations, resources, or University's reputation SCOPE Provides network administration for a unit or school	RECEIVED Under General Direction: Within this job, the incumbent normally performs regular assignments using own judgment and following department / university policy, while keeping supervisor informed as necessary. Receives general guidance on new projects as to methods, procedures and desired end results. The incumbent has discretion to make decisions within the scope of their responsibilities. Complex assignments are usually reviewed upon completion. GIVEN Individual Contributor: Works independently or as part of a team to achieve results.

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Network Engineer Family

Level	Function/ Roles	Experience/ Education (Minimum Required)	Typical Duties and Responsibilities (Cumulative from level to level in each job family)	Impact/Scope	Supervision
57 E	Network Administrator II	Bachelor's degree in computer science 5+ years of IT experience including 3+ in Networks Advanced knowledge of networks	 Designs and evaluates the network infrastructure, traffic flows, network diagnostics and emergency procedures for multiprotocol network Plans, evaluates and implements future network, server, and desktop products, initiatives, upgrades and extensions Makes recommendations for new and/or additional resources or hardware Key contributor in network planning, engineering and architecture for complex systems Key technical contributor to the development of technical standards, security protocols and firewall planning Analyzes and makes recommendations on technical standards and interface applications Serves as adviser, analyzing departmental needs and evaluating solutions at an advanced level Recommends network upgrades to senior management as a part of the strategic plan to optimize technical efficiencies and to solve critical network problems Participates in various complex projects to continually improve/upgrade network infrastructure 	IMPACT Moderate impact on operations, resources, or University's reputation SCOPE Provides comprehensive network administration for a unit or school	RECEIVED Under Limited Direction: Within this job, the incumbent performs regular assignments using own judgment. Determines methods and procedures on new projects. Held accountable for end results. Responsible for determining when supervisor or others should be consulted. The incumbent has discretion to make decisions within the scope of their responsibilities. Complex assignments are occasionally reviewed upon completion. GIVEN Individual Contributor: Works independently or as part of a team to achieve results.

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Network Engineer Family

Function/	Experience/ Education (Minimum Paguined)	Typical Duties and Responsibilities	Impact/Soons	Suparvision
				Supervision RECEIVED
				Under Limited Direction:
	computer science	*	÷	Within this job, the
111	Master's degree preferred			incumbent performs
	waster's degree preferred		oniversity s reputation	regular assignments using
	7+ years of IT experience		SCOPE	own judgment.
		Frovides technical leadership for hetwork projects		Determines methods and
	including e : in i (ee, sins			procedures on new
	Advanced knowledge of		· · · · · · · · · · · · · · · · · · ·	projects. Held accountable
	networks			for end results.
				Responsible for
				determining when
				supervisor or others should
				be consulted. The
				incumbent has discretion
				to make decisions within
				the scope of their
				responsibilities. Complex
				assignments are
				occasionally reviewed
				upon completion.
				GIVEN
				Individual Contributor:
				Works independently or as
				part of a team to achieve
				results.
	Network Administrator III	Network Administrator III Bachelor's degree in computer science Master's degree preferred 7+ years of IT experience including 5+ in Networks Advanced knowledge of	Roles (Minimum Required) (Cumulative from level to level in each job family) Network Administrator III Bachelor's degree in computer science Master's degree preferred 7+ years of IT experience including 5+ in Networks Advanced knowledge of (Cumulative from level to level in each job family) The Duties and Responsibilities at this level are similar to those at the prior level. This level varies based on the other measures listed plus the addition of the following: • Identifies and evaluates new projects • Responsible for standardization of operating procedures • Provides technical leadership for network projects	Roles(Minimum Required)(Cumulative from level to level in each job family)Impact/ScopeNetwork AdministratorBachelor's degree in computer scienceThe Duties and Responsibilities at this level are similar to those at the prior level. This level varies based on the other measures listed

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Network Engineer Family

	Function/	Experience/ Education	Typical Duties and Responsibilities		Supervision
Level	Roles	(Minimum Required)	(Cumulative from level to level in each job family)	Impact/Scope	
58 E	Network Manager I	Bachelor's degree in computer science Master's degree preferred 7+ years of IT experience including 5+ in Networks Advanced knowledge of networks	 Manages unit and project(s) budget(s) Supervises and directs network administrators Manages network projects Key contributor in network planning, engineering and architecture for complex systems Analyzes and makes recommendations on technical standards and interface applications Serves as adviser, analyzing departmental needs and evaluating solutions at an advanced level Recommends network upgrades to senior management as a part of the strategic plan to optimize technical efficiencies and to solve critical network problems Plans, evaluates and implements future network, server, and desktop initiatives, upgrades and extensions Identifies and evaluates new projects Responsible for standardization of operating procedures 	IMPACT Moderate impact on operations, resources, or University's reputation SCOPE Typically manages network function within a small unit or school	RECEIVED Under Limited Direction: Within this job, the incumbent performs regular assignments using own judgment. Determines methods and procedures on new projects. Held accountable for end results. Responsible for determining when supervisor or others should be consulted. The incumbent has discretion to make decisions within the scope of their responsibilities. Complex assignments are occasionally reviewed upon completion.
					GIVEN Manages: Manages people and policies, allocates personnel and resources for given projects, full hire/fire authority, has primary responsibility for performance management and career development of employees, sets policy/standards within an area.

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Network Engineer Family

11	Function/	Experience/ Education	Typical Duties and Responsibilities		
Level	Roles	(Minimum Required)	(Cumulative from level to level in each job family)	Impact/Scope	Supervision
59 E	Network Manager II	Bachelor's degree in computer science Master's degree preferred 8+ years of IT experience including 6+ in Networks Advanced knowledge of networks	 Provides highly skilled technical expertise in network planning, engineering and architecture for complex systems Resolves highly complex network problems Develops network strategy Acts as a lead in the design and implementation of new infrastructure systems Responsible for implementation, support and development of network installation of unit Serves as project lead in the deployment of infrastructure upgrades, and new service planning and rollout Configure, maintain and upgrade network operating system and hardware 	IMPACT Significant impact on operations, resources, or University's reputation SCOPE Typically manages network function within a medium unit or school	RECEIVED Under Limited Direction: Within this job, the incumbent performs regular assignments using own judgment. Determines methods and procedures on new projects. Held accountable for end results. Responsible for determining when supervisor or others should be consulted. The incumbent has discretion to make decisions within the scope of their responsibilities. Complex assignments are occasionally reviewed upon completion. GIVEN Manages: Manages people and policies, allocates personnel and resources for given projects, full hire/fire authority, has primary responsibility for performance management and career development of employees, sets policy/standards within an area.

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Systems Management Family

Sote Systems or Son Systems or Son	Level Roles (Minimum Required) (Cumulative from level to level in each job family) Impact/Scope S		Function/	Experience/ Education	Typical Duties and Responsibilities		
Systems or Administrator I 56N Bachelor's degree preferred 3+ years of IT experience Thorough knowledge of operating systems NetWare operating system backups of all server and network data repositories Resolves complex, up to and including, third tier system problems Programs complex, non-standard system interfaces and configurations using own code Documents system administration processes and procedures Researches, plans and recommends future server initiatives, upgrades and expansions Researches, recommends and makes equipment purchases for clients Participates in system security and disaster recovery Manages the system including monitoring capacity, recommending upgrades, efficiency measures, scripting solutions to problems and creating security, system and user oprations, resources, or University's reputation Operations, resources, or University's reputation NetWare operating systems Facilitates system backups of all server and network data repositories Resolves complex, up to and including, third tier system or complex departmental integrated system or complex department or complex department or a midrange environment or complex department or compl	Systems or Administrator I 56N Bachelor's degree preferred 3+ years of IT experience Thorough knowledge of operating systems Thorough knowledge of operating systems Analyzes systems and is involved in the administration of systems and management of servers running Windows NT and NetWare operating systems Facilitates system backups of all server and network data repositories Resolves complex, up to and including, third tier system problems Programs complex, non-standard system interfaces and configurations using own code Documents system administration processes and procedures Researches, plans and recommends future server initiatives, upgrades and expansions Participates in system security and disaster recovery Participates in setup, configuration, tuning and troubleshooting of sources.	Level		_		Impact/Scope	Supervision
of servers Performs routine servicing, maintains logs, backup schedules, and tape archive libraries Installs upgrades and patches of operating systems and applications software Works independently or as part of a team to achieve results.	 Performs routine servicing, maintains logs, backup schedules, and tape archive libraries Installs upgrades and patches of operating systems and applications software 	56E* or	Systems	Bachelor's degree preferred 3+ years of IT experience Thorough knowledge of	 Manages the system including monitoring capacity, recommending upgrades, efficiency measures, scripting solutions to problems and creating security, system and user protocols Analyzes systems and is involved in the administration of systems and management of servers running Windows NT and NetWare operating systems Facilitates system backups of all server and network data repositories Resolves complex, up to and including, third tier system problems Programs complex, non-standard system interfaces and configurations using own code Documents system administration processes and procedures Researches, plans and recommends future server initiatives, upgrades and expansions Researches, recommends and makes equipment purchases for clients Participates in system security and disaster recovery Participates in setup, configuration, tuning and troubleshooting of servers Performs routine servicing, maintains logs, backup schedules, and tape archive libraries Installs upgrades and patches of operating systems and applications software Participates in administration of systems monitoring and 	IMPACT Moderate impact on operations, resources, or University's reputation SCOPE Provides comprehensive systems management for a midrange environment or complex departmental	RECEIVED Under General Direction: Within this job, the incumbent normally performs regular assignments using own judgment and following department / university policy, while keeping supervisor informed as necessary. Receives general guidance on new projects as to methods, procedures and desired end results. The incumbent has discretion to make decisions within the scope of their responsibilities. Complex assignments are usually reviewed upon completion. GIVEN Individual Contributor: Works independently or as part

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Systems Management Family

	Function/	Experience/ Education	Typical Duties and Responsibilities		
Level	Roles	(Minimum Required)	(Cumulative from level to level in each job family)	Impact/Scope	Supervision
57 E	Systems Administrator II	Bachelor's degree in computer science 5+ years of IT experience including 3+ in systems Advanced knowledge of operating systems	 Defines, implements and manages operating system policies and procedures, and lead systems planning Compiles and analyzes system operations and makes recommendations for greater efficiency Formulates/defines specifications for complex operating software Designs and implements customization of system environment to meet client needs and improve the overall performance of the system Works with system vendors to identify and correct hardware and software problems of the highest level Ensures integrity, accuracy, access and security of all system hardware, operating system Key contributor in the creation and design of the disaster recovery plan 	IMPACT Moderate impact on operations, resources, or University's reputation SCOPE Provides advanced systems management for medium sized systems of a moderately complex nature	Under Limited Direction: Within this job, the incumbent performs regular assignments using own judgment. Determines methods and procedures on new projects. Held accountable for end results. Responsible for determining when supervisor or others should be consulted. The incumbent has discretion to make decisions within the scope of their responsibilities. Complex assignments are occasionally reviewed upon completion. GIVEN Individual Contributor: Works independently or as part of a team to achieve results.

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Systems Management Family

	Function/	Experience/ Education	Typical Duties and Responsibilities		
Level	Roles	(Minimum Required)	(Cumulative from level to level in each job family)	Impact/Scope	Supervision
57 E	Systems Manager I	Bachelor's degree in computer science 5+ years of IT experience including 3+ in systems Advanced knowledge of operating systems	 Ensures long-term requirements of systems operations and administration are included in overall information systems planning for the organization Ensures security of systems Key contributor in the creation and design of the disaster recovery plan and other strategic initiatives Develops, maintains and manages budget Supervises and directs systems administrators Defines, implements and manages operating system policies and procedures, and lead systems planning Compiles and analyzes system operations and makes recommendations for greater efficiency Formulates/defines specifications for complex operating software Designs and implements customization of system environment to meet client needs and improve the overall performance of the system Works with system vendors to identify and correct hardware and software problems of the highest level Ensures integrity, accuracy, access and security of all system hardware, operating system Key contributor in the creation and design of the disaster recovery plan 	IMPACT Moderate impact on operations, resources, or University's reputation SCOPE Typically manages operating systems function within a small unit or school	Under Limited Direction: Within this job, the incumbent performs regular assignments using own judgment. Determines methods and procedures on new projects. Held accountable for end results. Responsible for determining when supervisor or others should be consulted. The incumbent has discretion to make decisions within the scope of their responsibilities. Complex assignments are occasionally reviewed upon completion. GIVEN Manages: Manages people and policies, allocates personnel and resources for given projects, full hire/fire authority, has primary responsibility for performance management and career development of employees, sets policy/standards within an area.

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Systems Management Family

Level	Function/ Roles	Experience/ Education (Minimum Required)	Typical Duties and Responsibilities (Cumulative from level to level in each job family)	Impact/Scope	Supervision
58 E	Systems Administrator III	Bachelor's degree in computer science Master's degree preferred 7+ years of experience Advanced knowledge of operating systems	 Responsible for strategic IT and systems operational planning and design of infrastructure Responsible for applications dealing with the overall operating system, such as sophisticated file maintenance routines, large telecommunications networks, computer accounting or advanced mathematical/scientific software Makes recommendations to senior management on large purchases including servers, groups of computers or new custom applications Manages the operation of all servers and ensures client/server integration for all business groups Ensures integrity, accuracy, access and security of all system hardware, operating system 	IMPACT Significant impact on operations, resources, or University's reputation SCOPE Typically works with large complex systems in a department/unit/school/University	RECEIVED Under Limited Direction: Within this job, the incumbent performs regular assignments using own judgment. Determines methods and procedures on new projects. Held accountable for end results. Responsible for determining when supervisor or others should be consulted. The incumbent has discretion to make decisions within the scope of their responsibilities. Complex assignments are occasionally reviewed upon completion. GIVEN Individual Contributor: Works independently or as part of a team to achieve results.

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Systems Management Family

	Function/	Experience/ Education	Typical Duties and Responsibilities		
Level	Roles	(Minimum Required)	(Cumulative from level to level in each job family)	Impact/Scope	Supervision
58E	Systems Manager II	Bachelor's degree in computer science Master's degree preferred 7+ years of experience Advanced knowledge of operating systems	 Through subordinates, provides systems management and support (e.g., manage the system setup and configurations, pricing, and recovery) Manages system administrators and production staff; works collaboratively with software developers Develops, maintains and manages budget Ensures security of systems Responsible for strategic IT and systems operational planning and design of infrastructure Makes recommendations to senior management on large purchases including servers, groups of computers or new custom applications Manages the operation of all servers and ensures client/server integration for all business groups Responsible for applications dealing with the overall operating system, such as sophisticated file maintenance routines, large telecommunications networks, computer accounting or advanced mathematical/scientific software 	IMPACT Significant impact on operations, resources, or University's reputation SCOPE Typically manages large and complex operating systems function within a medium unit or school	Within this job, the incumbent performs regular assignments using own judgment. Determines methods and procedures on new projects. Held accountable for end results. Responsible for determining when supervisor or others should be consulted. The incumbent has discretion to make decisions within the scope of their responsibilities. Complex assignments are occasionally reviewed upon completion. GIVEN Manages: Manages people and policies, allocates personnel and resources for given projects, full hire/fire authority, has primary responsibility for performance management and career development of employees, sets policy/standards within an area.

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Systems Management Family

	Function/	Experience/ Education	Typical Duties and Responsibilities		
Level	Roles	(Minimum Required)	(Cumulative from level to level in each job family)	Impact/Scope	Supervision
59E	Systems	Bachelor's degree in	The Duties and Responsibilities at this level are	IMPACT	RECEIVED
	Manager III	computer science	similar to those at the prior level. This level varies	Significant impact on	Under Limited Direction: Within
			based on the other measures listed plus the addition	operations, resources, or	this job, the incumbent performs
		Master's degree	of the following:	University's reputation	regular assignments using own
		preferred	Responsible for high-level applications dealing		judgment. Determines methods and
			with the overall operating system	SCOPE	procedures on new projects. Held
		8+ years of experience	Through subordinates, provides systems	Typically manages a large	accountable for end results.
			management and support (e.g., manage the	and complex operating	Responsible for determining when
		Advanced knowledge of	system setup and configurations, pricing, and	systems function within a	supervisor or others should be
		operating systems	recovery)	large unit or school	consulted. The incumbent has
					discretion to make decisions within
					the scope of their responsibilities.
					Complex assignments are
					occasionally reviewed upon
					completion.
					GIVEN
					Manages:
					Manages people and policies,
					allocates personnel and resources
					for given projects, full hire/fire
					authority, has primary
					responsibility for performance
					management and career
					development of employees, sets
					policy/standards within an area.

NOTE:

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Applications Programming Family

	Function/	Experience/ Education				
Level	Roles	(Minimum Required)		Non Exempt Duties and Responsibilities	Impact/Scope	Supervision
55 N	Applications	Bachelor's degree in	•	Codes, tests, debugs and documents applications	IMPACT	RECEIVED
	Programmer I	computer science		programs from specifications	Some impact on operations,	Under General Direction: Within
			•	Modifies programs to address needs or bugs in	resources, or University's	this job, the incumbent normally
		2+ years of experience		the software; interfaces with applications analyst	reputation	performs regular assignments using
			•	Does not work directly with users on functional		own judgment and following
		Experience with		specifications and needs analysis	SCOPE	department / university policy,
		applications		•	Programs on applications	while keeping supervisor informed
		programming			projects of small-to-	as necessary. Receives general
					moderate size and	guidance on new projects as to
					complexity	methods, procedures and desired
						end results. The incumbent has
						discretion to make decisions within
						the scope of their responsibilities.
						Complex assignments are usually
						reviewed upon completion.
						GIVEN
						Individual Contributor:
						Works independently or as part of a
						team to achieve results.

NOTE:

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Applications Programming Family

	Function/	Experience/ Education	Typical Duties and Responsibilities		
Level	Roles	(Minimum Required)	(Cumulative from level to level in each job family)	Impact/Scope	Supervision
56 E	Applications Programmer II	Bachelor's degree in computer science 3+ years of IT experience Thorough knowledge of applications programming	 Independently designs and programs original applications from own code Independently modifies programs to address new business needs or bugs in the software; interfaces with systems programmer and applications analyst Formulates/defines specifications for complex operating software programming applications or modifies/maintains complex applications Does not work directly with users on functional specifications and needs analysis 	IMPACT Moderate impact on operations, resources, or University's reputation SCOPE Programs on applications projects of medium-to-large size and complexity	RECEIVED Under General Direction: Within this job, the incumbent normally performs regular assignments using own judgment and following department / university policy, while keeping supervisor informed as necessary. Receives general guidance on new projects as to methods, procedures and desired end results. The incumbent has discretion to make decisions within the scope of their responsibilities. Complex assignments are usually reviewed upon completion. GIVEN Individual Contributor: Works independently or as part of a team to achieve results.

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Applications Programming Family

	Function/	Experience/ Education	Typical Duties and Responsibilities		
Level	Roles	(Minimum Required)	(Cumulative from level to level in each job family)	Impact/Scope	Supervision
57 E	Applications Programmer III	Bachelor's degree in computer science 5+ years of experience Advanced knowledge of applications programming	 Independently designs and programs complex and multifaceted original applications for business administration, scientific support or instructional support Designs, codes, tests, debugs and documents high-level programs Devises or modifies procedures to solve complex problems, taking into account computer equipment capacity and limitations, operating time and form of desired results Does not work directly with users on functional specifications and needs analysis 	IMPACT Moderate impact on operations, resources, or University's reputation SCOPE Programs on applications projects of large-to-very large size and complexity	Under Limited Direction: Within this job, the incumbent performs regular assignments using own judgment. Determines methods and procedures on new projects. Held accountable for end results. Responsible for determining when supervisor or others should be consulted. The incumbent has discretion to make decisions within the scope of their responsibilities. Complex assignments are occasionally reviewed upon completion. GIVEN Individual Contributor: Works independently or as part of a team to achieve results.

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Applications Development Family

Level	Function/ Roles	Experience/ Education (Minimum Required)	Typical Duties and Responsibilities (Cumulative from level to level in each job family)	Impact/Scope	Supervision
56 E	Applications Programmer Analyst I	Bachelor's degree in computer science 3+ years of IT experience Thorough knowledge of applications development	 Interfaces with clients to define user objectives, business needs and scope via research, activity lists, interviews and/or written communications Develops and modifies, programs, tests, debugs and documents programs from own code Designs and evaluates test data and generates reports and tables of statistical results Provides programming support Works directly with users on functional specifications and needs analysis 	IMPACT Moderate impact on operations, resources, or University's reputation SCOPE Provides comprehensive applications development for projects of medium-to-large size and complexity	RECEIVED Under General Direction: Within this job, the incumbent normally performs regular assignments using own judgment and following department / university policy, while keeping supervisor informed as necessary. Receives general guidance on new projects as to methods, procedures and desired end results. The incumbent has discretion to make decisions within the scope of their responsibilities. Complex assignments are usually reviewed upon completion. GIVEN Individual Contributor: Works independently or as part of a team to achieve results.

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Applications Development Family

	Function/	Experience/ Education	Typical Duties and Responsibilities		
Level	Roles	(Minimum Required)	(Cumulative from level to level in each job family)	Impact/Scope	Supervision
57 E	Applications Programmer Analyst II	Bachelor's degree in computer science 5+ years of IT experience with 2 – 4 years in applications development Advanced knowledge of applications development	 Involved in user needs analysis, product evaluation, selection, customization, testing, implementation and support Independently designs and programs complex and multifaceted original applications for business administration, scientific support or instructional support Conceptualizes, designs, codes, tests, debugs and documents high-level programs Formulates and defines system scope Responsible for all phases of application development cycle Prepares detailed specifications from which programs will be written Provides project management support for some software development projects 	IMPACT Moderate impact on operations, resources, or University's reputation SCOPE Provides advanced applications development for projects of large-to- very large size and complexity	Under Limited Direction: Within this job, the incumbent performs regular assignments using own judgment. Determines methods and procedures on new projects. Held accountable for end results. Responsible for determining when supervisor or others should be consulted. The incumbent has discretion to make decisions within the scope of their responsibilities. Complex assignments are occasionally reviewed upon completion. GIVEN Individual Contributor: Works independently or as part of a team to achieve results.

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Applications Development Family

	Function/	Experience/ Education	Typical Duties and Responsibilities		~
			(Cumulative from level to level in each job family)	• •	•
Level 58 E	Function/ Roles Applications Programmer Analyst III	Experience/ Education (Minimum Required) Bachelor's degree in computer science Master's degree preferred 7+ years of IT experience with 5+ years in applications development Advanced knowledge of applications development	 (Cumulative from level to level in each job family) Key contributor on innovative technology development team responsible for analyzing current application/data model, identifying, developing and communicating technical solutions for a high level complex application Defines system requirements, conducts gap analysis, identifies feasible alternative solutions that meet project development standards as well as project milestones and deadlines, and assists in the scope of modifications Designs detailed technical specifications, development, testing, deployment and support of 	Impact/Scope IMPACT Significant impact on operations, resources, or University's reputation SCOPE Provides advanced applications development for major and highly complex projects	RECEIVED Under Limited Direction: Within this job, the incumbent performs regular assignments using own judgment. Determines methods and procedures on new projects. Held accountable for end results. Responsible for determining when supervisor or others should be consulted. The incumbent has discretion to make decisions within the scope of their responsibilities. Complex assignments are
			 high level complex applications Responsible for project leadership, project planning, design and implementation of major applications development efforts on multiple phases of projects 		occasionally reviewed upon completion. GIVEN Individual Contributor: Works independently or as part of a team to achieve results.

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Applications Development Family

_	Function/	Experience/ Education	Typical Duties and Responsibilities		
Level		(Minimum Required)	(Cumulative from level to level in each job family)	Impact/Scope	Supervision
59 E	Applications Programming Analyst Management I	Bachelor's degree in computer science Master's degree preferred 8+ years of IT experience with 3+ years managing Advanced knowledge of IT applications	 Implements large-scale projects or systems, including developing and delivering communication plan Guides major project costs, timetables, resources and technologies Participates in long-term strategic policy decisions for department Consults with other departments on the designing and implementation new business processes to streamline operations Manages departmental budget 	IMPACT Significant impact on operations, resources, or University's reputation SCOPE Manages IT function within a unit or within the IT function of a school or a major project	RECEIVED Under Limited Direction: Within this job, the incumbent performs regular assignments using own judgment. Determines methods and procedures on new projects. Held accountable for end results. Responsible for determining when supervisor or others should be consulted. The incumbent has discretion to make decisions within the scope of their responsibilities. Complex assignments are occasionally reviewed upon completion. GIVEN Manages: Manages people and policies, allocates personnel and resources for given projects, full hire/fire authority, has primary responsibility for performance management and career development of employees, sets policy/standards within an area.

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Web Administrator Family

	Function/	Experience/ Education	Typical Duties and Responsibilities		
Level	Roles	(Minimum Required)	(Cumulative from level to level in each job family)	Impact/Scope	Supervision
56E* or 56N	Web Administrator I	Bachelor's degree in computer science 3+ years of experience Thorough knowledge of Web Administration	 Formulates/defines scope and objectives to develop or modify moderately complex web projects Defines user objectives via research, interviews activity lists and/or written communications Enhances site navigation and architecture Updates and creates new web pages and manages all aspects of web site, including customization, problem resolution and license management Runs utilization reports and distributes to business owners Registers sites with search engines, restricting access via password, domain name and IP address 	IMPACT Moderate impact on operations, resources, or University's reputation SCOPE Works on web administration projects of a medium size and complexity or segments of larger systems	Within this job, the incumbent normally performs regular assignments using own judgment and following department / university policy, while keeping supervisor informed as necessary. Receives general guidance on new projects as to methods, procedures and desired end results. The incumbent has discretion to make decisions within the scope of their responsibilities. Complex assignments are usually reviewed upon completion. GIVEN Individual Contributor: Works independently or as part of a team to achieve results.

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Web Administrator Family

	Function/	Experience/ Education	Typical Duties and Responsibilities		
Level	Roles	(Minimum Required)	(Cumulative from level to level in each job family)	Impact/Scope	Supervision
57 E	Web Administrator II	Bachelor's degree in computer science 5+ years of experience Advanced knowledge of web administration and architecture	 Conceptualizes, designs, creates and builds infrastructure for interactive web sites with marketing and optimizing the business or public relations image in mind using programming languages including Java and Pearl vs. mark up tools such as HTML Involved in user needs analysis, product evaluation, selection, customization, testing, implementation and support Provides leadership for web development projects Manages all aspects of web site including customization, problem resolution and performance management Represents school/unit on University wide web committees 	IMPACT Moderate impact on operations, resources, or University's reputation SCOPE Works on web administration projects of a large size and complexity or segments of larger systems	RECEIVED Under Limited Direction: Within this job, the incumbent performs regular assignments using own judgment. Determines methods and procedures on new projects. Held accountable for end results. Responsible for determining when supervisor or others should be consulted. The incumbent has discretion to make decisions within the scope of their responsibilities. Complex assignments are occasionally reviewed upon completion. GIVEN Individual Contributor: Works independently or as part of a team to achieve results.

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Web Administrator Family

***	Aummstrator i				
_	Function/	Experience/ Education	Typical Duties and Responsibilities		
Level	Roles	(Minimum Required)	(Cumulative from level to level in each job family)	Impact/Scope	Supervision
57 E	Web Administrator Management I	Bachelor's degree in computer science 5+ years of experience Advanced knowledge of web administration and architecture	 Provides leadership for web development projects, including web team Advises on emerging trends Tracks team progress and reviews status with key users Conceptualizes, designs, creates and builds infrastructure for interactive web sites with marketing and optimizing the business or public relations image in mind using programming languages including Java and Pearl vs. mark up tools such as HTML Involved in user needs analysis, product evaluation, selection, customization, testing, implementation and support Manages all aspects of web site including customization, problem resolution and performance management 	IMPACT Moderate impact on operations, resources, or University's reputation SCOPE Typically manages the web administration function within a unit	RECEIVED Under Limited Direction: Within this job, the incumbent performs regular assignments using own judgment. Determines methods and procedures on new projects. Held accountable for end results. Responsible for determining when supervisor or others should be consulted. The incumbent has discretion to make decisions within the scope of their responsibilities. Complex assignments are occasionally reviewed upon completion. GIVEN
					Manages: Manages people and policies, allocates personnel and resources for given projects, full hire/fire authority, has primary responsibility for performance management and career development of employees, sets policy/standards within an area.

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Web Administrator Family

Level	Function/ Roles	Experience/ Education (Minimum Required)	Typical Duties and Responsibilities (Cumulative from level to level in each job family)	Impact/Scope	Supervision
58 E	Roles Web Administrator Management II	(Minimum Required) Bachelor's degree in computer science Master's degree preferred 7+ years of experience Advanced knowledge of web administration and architecture	 (Cumulative from level to level in each job family) Responsible for project leadership, project planning, design and implementation of major projects Implements project design, program, code and testing, ensuring standards and procedures are followed Provides technical expertise in construction of web application infrastructure Supervises web team and provides technical assistance as required 	Impact/Scope IMPACT Significant impact on operations, resources, or University's reputation SCOPE Typically manages the web administration function within the IT function of a school/large unit	RECEIVED Under Limited Direction: Within this job, the incumbent performs regular assignments using own judgment. Determines methods and procedures on new projects. Held accountable for end results. Responsible for determining when supervisor or others should be consulted. The incumbent has discretion to make decisions within the scope of their responsibilities. Complex assignments are occasionally reviewed upon completion. GIVEN Manages: Manages people and policies, allocates personnel and resources for given projects, full hire/fire authority, has primary responsibility for performance management and career development of employees, sets policy/standards within an area.

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Web Development Family

	Function/	Experience/ Education	Typical Duties and Responsibilities		
Level	Roles	(Minimum Required)	(Cumulative from level to level in each job family)	Impact/Scope	Supervision
56 E	Web Development I	Bachelor's degree in computer science 3+ years of IT experience Thorough knowledge of web development	 Independently design, develop, test, debug, documents and supports interactive web sites and to implement and support third-party web-bases applications (Java, Pearl) Interfaces with clients to define user objectives, business needs and scope via research, activity lists, interviews and/or written communications Involved in user needs analysis, product evaluation, selection, customization, testing, implementation and support Works directly with users on functional specifications and needs analysis 	IMPACT Moderate impact on operations, resources, or University's reputation SCOPE Works on web development projects of a medium size and complexity or segments of larger systems	Within this job, the incumbent normally performs regular assignments using own judgment and following department / university policy, while keeping supervisor informed as necessary. Receives general guidance on new projects as to methods, procedures and desired end results. The incumbent has discretion to make decisions within the scope of their responsibilities. Complex assignments are usually reviewed upon completion. GIVEN Individual Contributor: Works independently or as part of a team to achieve results.

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Web Development Family

	Function/	Experience/ Education	Typical Duties and Responsibilities	T 4/0	g
Level	Roles	(Minimum Required)	(Cumulative from level to level in each job family)	Impact/Scope	Supervision
57 E	Web Development II	Bachelor's degree in computer science 5+ years of IT experience with 2 – 4 years in web development Advanced knowledge of web development, including navigation and site-design	 Manages all aspects of web site including customization, problem resolution and performance management Works with graphic designers and other members of as project team to develop the site concept, interface design and architecture of the website keeping strategic planning and budgeting processes and creative vision of the organization in mind Responsible for all phases of web application development cycle, including interface implementation Integrates web applications with backend databases 	IMPACT Moderate impact on operations, resources, or University's reputation SCOPE Works on web development projects of a large size and complexity or segments of larger systems	RECEIVED Under Limited Direction: Within this job, the incumbent performs regular assignments using own judgment. Determines methods and procedures on new projects. Held accountable for end results. Responsible for determining when supervisor or others should be consulted. The incumbent has discretion to make decisions within the scope of their responsibilities. Complex assignments are occasionally reviewed upon completion. GIVEN Individual Contributor: Works independently or as part of a team to achieve results.

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Web Development Family

	Function/	Experience/ Education	Typical Duties and Responsibilities		
Level	Roles	(Minimum Required)	(Cumulative from level to level in each job family)	Impact/Scope	Supervision
58 E	Web Development Management I	Bachelor's degree in computer science Master's degree preferred 7+ years of experience Supervisory experience Advanced knowledge of IT web development	 Establishes and maintains overall creative vision for design, content, and the administration of key web sites and programs Sets the strategic direction and oversees all content production and programming for one or more large programs/projects Responsible for project leadership, project planning, design and implementation of major applications development efforts Provides technical expertise in construction of web application infrastructure Implements project design, program, code and testing, ensuring standards and procedures are followed Supervises web administrator and programmers 	IMPACT Significant impact on operations, resources, or University's reputation SCOPE Typically manages the web development function within a unit or within the IT function of a school	RECEIVED Under Limited Direction: Within this job, the incumbent performs regular assignments using own judgment. Determines methods and procedures on new projects. Held accountable for end results. Responsible for determining when supervisor or others should be consulted. The incumbent has discretion to make decisions within the scope of their responsibilities. Complex assignments are occasionally reviewed upon completion. GIVEN Manages: Manages people and policies, allocates personnel and resources for given projects, full hire/fire authority, has primary responsibility for performance management and career development of employees, sets policy/standards within an area.

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Digital Imaging and New Media Development Family

·	Function/	Experience/ Education	Typical Duties and Responsibilities		
Level	Roles	(Minimum Required)	(Cumulative from level to level in each job family)	Impact/Scope	Supervision
56 E	Digital Imaging and New Media Development Officer I	Bachelor's degree in computer science 3+ years of experience Thorough knowledge of multiple media development (content-creation/production and specialized media equipment)	 Responsible for providing production, instruction and consulting services to various clients in the application of new and emerging digital media technologies Performs graphic design, multimedia authoring, site oriented web development, advanced publishing and two/three dimensional animation and visualization Stays current with industry trends and emerging technologies 	IMPACT Moderate impact on operations, resources, or University's reputation SCOPE Assigned to small projects or to phases of larger projects	Under General Direction: Within this job, the incumbent normally performs regular assignments using own judgment and following department / university policy, while keeping supervisor informed as necessary. Receives general guidance on new projects as to methods, procedures and desired end results. The incumbent has discretion to make decisions within the scope of their responsibilities. Complex assignments are usually reviewed upon completion. GIVEN Individual Contributor: Works independently or as part of a team to achieve results.

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Digital Imaging and New Media Development Family

	Function/	Experience/ Education	Typical Duties and Responsibilities		
Level	Roles	(Minimum Required)	(Cumulative from level to level in each job family)	Impact/Scope	Supervision
57 E	Digital Imaging and New Media Development Officer II	•	 Contributes to projects related to graphic design, multimedia authoring, site-oriented web development, advanced publishing and two/three dimensional animation and visualization Works with complex visualization and imaging techniques Serves as a technical resource Assists in developing and executing project plan and budget 	IMPACT Moderate impact on operations, resources, or University's reputation SCOPE Responsible for several components of a project or a complex component of a project	RECEIVED Under Limited Direction: Within this job, the incumbent performs regular assignments using own judgment. Determines methods and procedures on new projects. Held accountable for end results. Responsible for determining when supervisor or others should be consulted. The incumbent has discretion to make decisions within the scope of their responsibilities. Complex assignments are occasionally reviewed upon completion. GIVEN Individual Contributor: Works independently or as part of a team to achieve results.

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Digital Imaging and New Media Development Family

	Function/	Experience/ Education	Typical Duties and Responsibilities		
Level	Roles	(Minimum Required)	(Cumulative from level to level in each job family)	Impact/Scope	Supervision
58 E	Digital Imaging	Bachelor's degree in computer science Master's degree preferred 7+ years of experience in multimedia technologies Advanced knowledge of multiple media development and one or more content subject areas	 Collaborates with faculty, researchers and clients to create alternative digital media and visualization techniques and deploy advanced technologies Acts as a liaison with other institutions, vendors and organizations Consults on multiple projects around cutting edge multimedia and visualization projects Provides technical direction and subject matter expertise through project management 	IMPACT Significant impact on operations, resources, or University's reputation SCOPE System responsibility on complex components or complex projects	RECEIVED Under Limited Direction: Within this job, the incumbent performs regular assignments using own judgment. Determines methods and procedures on new projects. Held accountable for end results. Responsible for determining when supervisor or others should be consulted. The incumbent has discretion to make decisions within the scope of their responsibilities. Complex assignments are occasionally reviewed upon completion. GIVEN Individual Contributor: Works independently or as part of a team to achieve results. Team Leader: Provides direction for entire project or a project team

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Digital Imaging and New Media Development Family

8	Function/	Experience/ Education	Typical Duties and Responsibilities		
Level	Roles	(Minimum Required)	(Cumulative from level to level in each job family)	Impact/Scope	Supervision
59 E	Digital Imaging and New Media Management I	Bachelor's degree in computer science Master's degree preferred 8+ years of experience in multimedia technologies Advanced knowledge of multiple media development and one or more content subject areas	 Responsible for broad oversight of instruction media and technology applications Consults with other departments on the designing and implementation new business processes to streamline operations Participates in long-term strategic policy decisions for department Plans/manages integration and implementation of new technology Provides technical consulting on high degree of multimedia and/or visualization specialization Guides major project costs, timetables, communications, resources and technologies Manages budget 	IMPACT Significant impact on operations, resources, or University's reputation SCOPE System-wide/cross functional team management for multiple complex projects	RECEIVED Under Limited Direction: Within this job, the incumbent performs regular assignments using own judgment. Determines methods and procedures on new projects. Held accountable for end results. Responsible for determining when supervisor or others should be consulted. The incumbent has discretion to make decisions within the scope of their responsibilities. Complex assignments are occasionally reviewed upon completion.
					GIVEN Manages: Manages people and policies, allocates personnel and resources for given projects, full hire/fire authority, has primary responsibility for performance management and career development of employees, sets policy/standards within an area.

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Business Analyst Family

	Function/	Experience/ Education	Typical Duties and Responsibilities		
Level	Roles	(Minimum Required)	(Cumulative from level to level in each job family)	Impact/Scope	Supervision
56 E	Business Analyst I	Bachelor's degree in computer science 3+ years of IT experience Thorough knowledge of business analysis	 Works in some phases of systems analysis and considers the business implications of the application of technology to current business environment Analyzes business and user needs, documents requirements and revises existing system logic difficulties Defines user objectives, business needs and scope via research, activity lists, interviews and/or written communications Develops or modifies moderately complex information systems Designs and evaluates test data and generates reports and tables of statistical results 	IMPACT Moderate impact on operations, resources, or University's reputation SCOPE Provides comprehensive business analysis for a unit or school	Under General Direction: Within this job, the incumbent normally performs regular assignments using own judgment and following department / university policy, while keeping supervisor informed as necessary. Receives general guidance on new projects as to methods, procedures and desired end results. The incumbent has discretion to make decisions within the scope of their responsibilities. Complex assignments are usually reviewed upon completion. GIVEN Individual Contributor: Works independently or as part of a team to achieve results.

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Business Analyst Family

	Function/	Experience/ Education	Typical Duties and Responsibilities		
Level	Roles	(Minimum Required)	(Cumulative from level to level in each job family)	Impact/Scope	Supervision
57 E	Business Analyst II	Bachelor's degree in computer science 5+ years of IT experience with 2 – 4 years in business analysis Advanced knowledge of business analysis and functional subject matter expertise	 Works at a high technical level of most phases of systems analysis while considering the business implications of the application technology to the current and future business environment Conceptualizes, designs and documents programs Devises and/or modifies procedures to solve complex technical problems considering computer equipment capacity and limitations, operating time, and form of desired results Delivers independent business analysis contributions on complex applications projects for business/administration, scientific support or instructional support Performs user needs analysis, product evaluation, selection, customization, testing, implementation and support 	IMPACT Moderate impact on operations, resources, or University's reputation SCOPE Provides advanced business analysis for a unit or school	RECEIVED Under Limited Direction: Within this job, the incumbent performs regular assignments using own judgment. Determines methods and procedures on new projects. Held accountable for end results. Responsible for determining when supervisor or others should be consulted. The incumbent has discretion to make decisions within the scope of their responsibilities. Complex assignments are occasionally reviewed upon completion. GIVEN Individual Contributor: Works independently or as part of a team to achieve results.

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Business Analyst Family

	Function/	Experience/ Education	Typical Duties and Responsibilities		
Level	Roles	(Minimum Required)	(Cumulative from level to level in each job family)	Impact/Scope	Supervision
58 E	Business Analyst III	Bachelor's degree in computer science Master's degree preferred 7+ years of IT experience with 5+ years in business analysis Advanced knowledge of applications development and functional subject matter expertise	 Works at a full technical level on most phases of systems analysis and considers the business implications of the application of technology to the current and future business environment Responsible for project and team leadership and planning Designs and implements major applications development efforts on multiple phases of projects Defines system requirements, conducts gap analysis, identifies feasible alternative solutions that meet project development standards as well as project milestones and deadlines, and assists in the scope of modifications Devises and/or modifies procedures to solve highly complex technical problems related to computer equipment capacity and limitations, operating time, and form of desired results Key contributor on innovative technology development team responsible for analyzing, identifying, developing and communicating technical solutions for a high level complex application Acts as team leader for projects with moderate budgets or of a short to intermediate duration 	IMPACT Significant impact on operations, resources, or University's reputation SCOPE Provides advanced business analysis and planning for a unit or school	RECEIVED Under Limited Direction: Within this job, the incumbent performs regular assignments using own judgment. Determines methods and procedures on new projects. Held accountable for end results. Responsible for determining when supervisor or others should be consulted. The incumbent has discretion to make decisions within the scope of their responsibilities. Complex assignments are occasionally reviewed upon completion. GIVEN Individual Contributor: Works independently or as part of a team to achieve results.

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Business Analyst Family

	Function/	Experience/ Education	Typical Duties and Responsibilities		
Level	Roles	(Minimum Required)	(Cumulative from level to level in each job family)	Impact/Scope	Supervision Received
59 E	Business Analyst IV	Bachelor's degree in computer science Master's degree preferred 8+ years of experience Advanced knowledge of applications development and functional subject matter expertise	 Responsible for project leadership, project planning, design and implementation of major applications development efforts on multiple phases of complex projects and systems integration Participates in long-term strategic policy decisions Designs detailed technical specifications, development, testing, deployment and support of high level complex applications Devises and/or modifies procedures to solve the most complex technical problems related to computer equipment capacity and limitations, operating time, and form of desired results Formulates system scope and objectives relative to the organizations business plan and industry requirements Key contributor to innovative technology development team responsible for analyzing current application/data model Identifies, develops and communicates technical solutions for the highest level complex application 	IMPACT Significant impact on operations, resources, or University's reputation SCOPE Provides advanced business analysis and planning for a unit or school	Under Limited Direction: Within this job, the incumbent performs regular assignments using own judgment. Determines methods and procedures on new projects. Held accountable for end results. Responsible for determining when supervisor or others should be consulted. The incumbent has discretion to make decisions within the scope of their responsibilities. Complex assignments are occasionally reviewed upon completion. GIVEN Individual Contributor: Works independently or as part of a team to achieve results.

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Business Analyst Family

	Function/	Experience/ Education	Typical Duties and Responsibilities		
Level	Roles	(Minimum Required)	(Cumulative from level to level in each job family)	Impact/Scope	Supervision
59E	Business Analyst Management I	Bachelor's degree in computer science Master's degree preferred 8+ years of experience Advanced knowledge of applications development and functional subject matter expertise Supervisory experience	 Oversees the management and implementation of large-scale projects or systems Responsible for long-term strategic policy decisions for department Manages project costs, timetables, resources and technologies Responsible for developing and delivering communication plans Consults with other departments on the design and implementation of new business processes to streamline operations Manages department budget 	IMPACT Significant impact on operations, resources, or University's reputation SCOPE Typically manages data analysis function within a unit or within the IT function of a school or a major project	RECEIVED Under Limited Direction: Within this job, the incumbent performs regular assignments using own judgment. Determines methods and procedures on new projects. Held accountable for end results. Responsible for determining when supervisor or others should be consulted. The incumbent has discretion to make decisions within the scope of their responsibilities. Complex assignments are occasionally reviewed upon completion. GIVEN Manages: Manages people and policies, allocates personnel and resources for given projects, full hire/fire authority, has primary responsibility for performance management and career development of employees, sets policy/standards within an area.

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Database Administrator Family

	Function/	Experience/ Education	Typical Duties and Responsibilities		
Level	Roles	(Minimum Required)	(Cumulative from level to level in each job family)	Impact/Scope	Supervision
56 E	Database Administrator II	Bachelor's degree in computer science 3+ years of experience Experience with relational databases	 Creates, designs, develops, implements and maintains database applications from client needs assessment Analyzes informational needs and determines data elements, relationships, and attributes, proposed manipulation, data flow and storage requirements and data output and reporting capabilities Develops web-based interfaces to databases Defines data structure configuration options to accommodate database production storage, maintenance and accessibility Tests designed applications utilizing database management software or general programming software Installs, implements and supports systems within the user base Creates backup security standards for database systems 	IMPACT Moderate impact on operations, resources, or University's reputation SCOPE Provides comprehensive relational database experience for a unit or school	Under General Direction: Within this job, the incumbent normally performs regular assignments using own judgment and following department / university policy, while keeping supervisor informed as necessary. Receives general guidance on new projects as to methods, procedures and desired end results. The incumbent has discretion to make decisions within the scope of their responsibilities. Complex assignments are usually reviewed upon completion. GIVEN Individual Contributor: Works independently or as part of a team to achieve results.

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Database Administrator Family

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	Function/	Experience/ Education	Typical Duties and Responsibilities	
Level	Roles	(Minimum Required)	(Cumulative from level to level in each job family) Impact/Scope	Supervision
57 E	Database	Bachelor's degree in	• Creates, designs, develops, implements and maintains IMPACT	RECEIVED
	Administrator	computer science 5+ years of experience Knowledge of relational databases	complex databases with respect to access methods, access time, security, device allocation, validation checks, reorganization and statistical methods Responsible for maintenance and use of database dictionaries Manages and maintains unit-wide database systems and develops high level interfaces to databases Writes high level complex queries from a relational database establishing links between tables and fields often between systems and analyzes results Writes programmatic procedures needed to maintain data integrity and usability Responsible for quality control and auditing of databases to ensure accurate and appropriate use of data Works with clients with database selection, process definition, data normalization, data flow and proper data usage Advises on strategic planning for database deployment and integration issues	Under Limited Direction: Within this job, the incumbent performs regular assignments using own judgment. Determines methods and procedures on new projects. Held accountable for end results. Responsible for determining when supervisor or others should be consulted. The incumbent has discretion to make decisions within the scope of their responsibilities. Complex assignments are occasionally reviewed upon completion. GIVEN Individual Contributor: Works independently or as part of a team to achieve results.

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Database Administrator Family

	Function/	Experience/ Education	Typical Duties and Responsibilities	
Level	Roles	(Minimum Required)	(Cumulative from level to level in each job family) Impact/Scope	Supervision
58 E	Database Administrator IV	Bachelor's degree in computer science Master's degree preferred 7+ years of experience Advanced level of database administration	Designs, implements and maintains highly complex databases with respect to access methods, access time, device allocation, validation checks, organization, protection and security, documentation, guidelines and statistical methods Maintains database dictionaries Insures integration of systems Evaluates and documents project results Established schedules and coordinates database modifications and monitoring Provides high-level analysis and report development for use in analyzing internal and external data Chairs committees on database integrity, integration and/or policy development Participates in long-term strategic policy decision making	Within this job, the incumbent performs regular assignments using own judgment. Determines methods and procedures on new projects. Held accountable for end results. Responsible for determining when supervisor or others should be consulted. The incumbent has discretion to make decisions within the scope of their responsibilities. Complex assignments are occasionally reviewed upon completion. GIVEN Individual Contributor: Works independently or as part of a team to achieve results.

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Database Administrator Family

	Function/	Experience/ Education	Typical Duties and Responsibilities		
Level	Roles	(Minimum Required)	(Cumulative from level to level in each job family)	Impact/Scope	Supervision
59 E	Database Administrator V	Bachelor's degree in computer science Master's degree preferred 8+ years of experience Advanced level of database administration on complex databases	 Responsible for all activities related to the administration of computerized databases Responsible for long-term strategic policy decisions for department Projects long-range requirements for database administration in conjunction with other managers in the information system function as well as business function managers Provides project leadership and personnel guidance Recommends and develops system architecture specifications Facilitates application development and client problem resolution Prepares activity and progress reports regarding database management section Analyzes and informs management and other technical groups on database market trends Manages budget 	IMPACT Significant impact on operations, resources, or University's reputation SCOPE Provides top level database administration for University wide systems	RECEIVED Under Limited Direction: Within this job, the incumbent performs regular assignments using own judgment. Determines methods and procedures on new projects. Held accountable for end results. Responsible for determining when supervisor or others should be consulted. The incumbent has discretion to make decisions within the scope of their responsibilities. Complex assignments are occasionally reviewed upon completion. GIVEN Individual Contributor: Works independently or as part of a team to achieve results. Team Leadership

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Data Warehousing Family

	Function/	Experience/ Education	Typical Duties and Responsibilities		
Level	Roles	(Minimum Required)	(Cumulative from level to level in each job family)	Impact/Scope	Supervision
57 E	Data Warehousing I	Bachelor's degree in computer science 5+ years of data warehousing and architecture experience Advanced knowledge of data warehousing	 Assists in the design, development, maintenance and support of a data warehouse system Focuses on data modeling and database design Responsible for database optimization, recovery/load strategy and implementation Troubleshoots advanced data warehouse problems and recommends appropriate action Codes and documents scripts and stored procedures Prepares/implements data verification and testing methods Evaluates existing subject areas stored in the data warehouse Provides technical expertise and direction in developing and supporting system level programs, interfacing with customers on requirements Performs business analysis, data acquisition/access analysis and design 	IMPACT Moderate impact on operations, resources, or University's reputation SCOPE May take on several components of a project or a complex component of a project	RECEIVED Under Limited Direction: Within this job, the incumbent performs regular assignments using own judgment. Determines methods and procedures on new projects. Held accountable for end results. Responsible for determining when supervisor or others should be consulted. The incumbent has discretion to make decisions within the scope of their responsibilities. Complex assignments are occasionally reviewed upon completion. GIVEN Individual Contributor: Works independently or as part of a team to achieve results.

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Data Warehousing Family

Data	Function/	Experience/ Education	Typical Duties and Responsibilities		
Level	Roles	(Minimum Required)	(Cumulative from level to level in each job family)	Impact/Scope	Supervision
58 E	Data Warehousing II	Bachelor's degree in computer science Master's degree preferred 7+ years of data warehousing and architecture experience Advanced knowledge of data warehousing	 Responsible for overall data warehouse design and construction, ensuring optimization of data access, integration, and utilization Conducts research into new data warehouse applications, determines viability for adoption, and proposes new projects Responsible for the product support and maintenance of the data warehouse Incorporates existing subject areas into an enterprise model Creates new or enhanced components of the data warehouse 	IMPACT Significant impact on operations, resources, or University's reputation SCOPE Responsible for complex components of system or complex projects	RECEIVED Under Limited Direction: Within this job, the incumbent performs regular assignments using own judgment. Determines methods and procedures on new projects. Held accountable for end results. Responsible for determining when supervisor or others should be consulted. The incumbent has discretion to make decisions within the scope of their responsibilities. Complex assignments are occasionally reviewed upon completion. GIVEN Individual Contributor: Works independently or as part of a team to achieve results.

NOTE:

1) Individual positions will typically have most, but not necessarily all, of the Duties & Responsibilities listed

- 2) Grade Recommendations based on comparative review/analysis of internal positions and external market data.
- 3) E = exempt, N = non-exempt but outside HUCTW due to job content, grade and/or a Confidential / Supervisory exclusion

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Data Warehousing Family

	Function/	Experience/ Education	Typical Duties and Responsibilities		
Level	Roles	(Minimum Required)	(Cumulative from level to level in each job family)	Impact/Scope	Supervision
59 E	Data Warehousing III	Bachelor's degree in computer science Master's degree preferred 8+ years of data warehousing and architecture experience Advanced communication, technical and project management skills	 Responsible for the development, maintenance and support of data warehouse system Plans/manages integration and management of new projects Leads the data warehouse team in development and enhancements of the data warehouse user interface Monitors status of assignments and reviews work for completion/quality Works with data architect on technical issues and system architecture definition Creates new standards and procedures related to end user and interface development, including user requirements 	IMPACT Significant impact on operations, resources, or University's reputation SCOPE System-wide responsibility on complex components or complex projects	Within this job, the incumbent performs regular assignments using own judgment. Determines methods and procedures on new projects. Held accountable for end results. Responsible for determining when supervisor or others should be consulted. The incumbent has discretion to make decisions within the scope of their responsibilities. Complex assignments are occasionally reviewed upon completion. GIVEN Individual Contributor: Works independently or as part of a team to achieve results.

NOTE:

1) Individual positions will typically have most, but not necessarily all, of the Duties & Responsibilities listed

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Project Management Family

	Function/	Experience/ Education	Typical Duties and Responsibilities		
Level	Roles	(Minimum Required)	(Cumulative from level to level in each job family)	Impact/Scope	Supervision
57 E	IT Project Manager I	Bachelor's degree in computer science 5+ years of business analyst experience implementing applications Advanced knowledge of IT project management	 Assesses project needs and prepares project proposals and detailed project work plans Identifies resources needed, timeline and project team and is responsible for meeting deadlines and deliverables Analyzes and evaluates existing or proposed project elements Responsible for project design, implementation and management Runs project meetings and provides technical and analytical guidance to project team Communicates effectively with clients, business analysts and technical staff Ensures adherence to quality standards 	IMPACT Moderate impact on operations, resources, or University's reputation SCOPE Provides project management for small complex project or manages sections of a large complex project for unit or school	RECEIVED Under Limited Direction: Within this job, the incumbent performs regular assignments using own judgment. Determines methods and procedures on new projects. Held accountable for end results. Responsible for determining when supervisor or others should be consulted. The incumbent has discretion to make decisions within the scope of their responsibilities. Complex assignments are occasionally reviewed upon completion. GIVEN Supervises: Supervises work and processes, assigns work, typically has primary responsibility for evaluating performance and performance management, effectively recommends hiring and firing decisions.

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Project Management Family

	Function/	Experience/ Education	Typical Duties and Responsibilities		
Level	Roles	(Minimum Required)	(Cumulative from level to level in each job family)	Impact/Scope	Supervision
58 E	IT Project Manager II	Bachelor's degree in computer science Master's degree preferred 7+ years of experience Advanced knowledge of IT project management	 Designs project plan and decides on project management strategy considering different design methodologies, assesses tradeoffs Responsible for assembling team, assigning individual responsibilities, identifying appropriate resources needed, and developing schedule to ensure timely completion of project Communicates with senior management regarding status of specific projects Reassigns resources to ensure project completion and appropriate work flows 	IMPACT Significant impact on operations, resources, or University's reputation SCOPE Provides project management for medium sized complex project(s) or manages large sections of a large complex project for unit or school	Under Limited Direction: Within this job, the incumbent performs regular assignments using own judgment. Determines methods and procedures on new projects. Held accountable for end results. Responsible for determining when supervisor or others should be consulted. The incumbent has discretion to make decisions within the scope of their responsibilities. Complex assignments are occasionally reviewed upon completion. GIVEN Manages: Manages people and policies, allocates personnel and resources for given projects, full hire/fire authority, has primary responsibility for performance management and career development of employees, sets policy/standards within an area.

NOTE:

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Project Management Family

	Function/	Experience/ Education	Typical Duties and Responsibilities		
Level	Roles	(Minimum Required)	(Cumulative from level to level in each job family)	Impact/Scope	Supervision
59 E	Roles IT Project Manager III	(Minimum Required) Bachelor's degree in computer science Master's degree preferred 8+ years of experience Advanced communication, technical, and IT project management skills	 (Cumulative from level to level in each job family) Responsible for all aspects of project development and implementation Defines project scope and objectives Guides project costs, timetables, resources and technologies Manages the integration of vendor tasks and tracks and reviews vendor deliverables Provides technical and analytical guidance to project team Responsible for developing and delivering communication plan Recommends and takes action to direct the analysis and solutions of problems 	Impact/Scope IMPACT Significant impact on operations, resources, or University's reputation SCOPE Provides project management for large sized complex project(s) for unit or school	Supervision RECEIVED Under Limited Direction: Within this job, the incumbent performs regular assignments using own judgment. Determines methods and procedures on new projects. Held accountable for end results. Responsible for determining when supervisor or others should be consulted. The incumbent has discretion to make decisions within the scope of their responsibilities. Complex assignments are occasionally reviewed upon completion. GIVEN Manages: Manages people and policies, allocates personnel and resources for given projects, full hire/fire authority, has primary responsibility for performance management and career development of employees, sets

NOTE:

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