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# STATE OF NEVADA DEPARTMENT OF ADMINISTRATION

Division of Human Resource Management

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# MEMORANDUM HR#22-19

April 12, 2019

**TO:** DHRM Listserv Recipients

FROM: Peter Long, Administrator Peter Long

Division of Human Resource Management

SUBJECT: PROPOSED CLASSIFICATION CHANGES – TRANSPORTATION GIS

**SERIES** 

Attached are proposed classification changes for your information pursuant to NRS 284.160, subsections 3 through 5. If you have any comments or objections regarding these changes, please send your written notification to Beverly Ghan at <a href="mailto:bghan@admin.nv.gov">bghan@admin.nv.gov</a> no later than May 13, 2019.

If no written objections are received in this office by May 13, 2019, action will be taken to effect the changes and a report will be made to the Personnel Commission.

Attachments

## NOTICE OF PROPOSED CLASSIFICATION CHANGES

Number: Posting #23-19 Posting Expires: May 13, 2019

Per NRS 284.160, the Administrator may make a change in classification without the prior approval of the Commission. The following change(s) are proposed:

CURRENT			PROPOSED				
CODE	TITLE	GRADE	EEO-4	CODE	TITLE	GRADE	EEO-4
6.343	Transportation GIS Manager	40	В	6.343	GIS Analyst IV	40	В
6.342	Transportation GIS Supervisor	38	В	6.342	GIS Analyst III	38	В
6.341	Transportation GIS Analyst II	36	В	6.341	GIS Analyst II	36	В
6.340	Transportation GIS Analyst I	33	В	6.340	GIS Analyst I	33	В
	NEW			6.339	GIS Analyst Trainee	31	В

## Basis for Recommendation

At the request of the Nevada Department of Transportation (NDOT) a review of the Transportation GIS series was completed.

In consultation with subject matter experts from NDOT, the Division of Conservation and Natural Resources (DCNR) and analysts within the Division of Human Resource Management (DHRM) it was determined that the word Transportation be removed from the class code title and that the GIS Manager and GIS Supervisor be retitled GIS Analyst IV and GIS Analyst III respectively. These changes will allow other departments that utilize GIS technologies to classify positions within this series.

It is also recommended that an additional trainee level be added in the series to increase external/internal recruitment efforts and allow for upward progression of internal Photogrammetrist/Cartographer and Cartographic/Graphics Technician positions that perform GIS related duties.

Furthermore, the series and class concepts were amended, at every level, to clarify duties and responsibilities. In addition, an Informational Note was added to the Minimum Qualifications to indicate that certification as a Geographic Information Systems Professional would be equivalent to one year of work experience.

Lastly, the Education & Experience, Entry Level and Full Performance Knowledge, Skills and Abilities of the Minimum Qualifications were amended to reflect these changes, clarify experience required and to maintain consistency with formatting and structure.

Throughout the review, management and human resource staff within NDOT, DCNR and analysts within DHRM participated by offering recommendations and reviewing changes as the process progressed and they support the recommended changes.

Note: Changes to the class specifications are noted as follows: additions in blue and deletions in red.

The formal recommendations and specifications are on file with the Division Administrator, Human Resource Management. To view a copy in Carson City, go to 209 East Musser Street, Suite 101; in Las Vegas, go to 555 East Washington Avenue, Suite 1400. You may also view the recommendations and specifications online at hr.nv.gov/Sections/Classification/Proposed\_Classification\_Changes/. For additional information call (775) 684-0130.

**Objections to the proposed change(s) must be received in writing by May 13, 2019.** Objections should be addressed to Beverly Ghan, Deputy Division Administrator, Compensation, Classification and Recruitment Section of the Division of Human Resource Management, 209 East Musser Street, Suite 101, Carson City, Nevada 89701-4204.

**POSTING DATE: April 12, 2019** 



## STATE OF NEVADA

# Department of Administration Division of Human Resource Management

## CLASS SPECIFICATION

TITLE	<u>GRADE</u>	<u>EEO-4</u>	<u>CODE</u>
[TRANSPORTATION] GIS [MANAGER] ANALYST IV	40	В	6.343
TRANSPORTATION GIS SUPERVISOR ANALYST III	38	В	6.342
TRANSPORTATION GIS ANALYST II	36	В	6.341
TRANSPORTATION GIS ANALYST I	33	В	6.340
GIS ANALYST TRAINEE	31	$\boldsymbol{B}$	6.339

## **SERIES CONCEPT**

[Transportation] GIS Analysts are responsible for designing, implementing, supporting and administering all aspects of a department's *and/or division's* enterprise geographic information system.

Develop and maintain the Geographic Information Systems (GIS) [Linear Referencing System (LRS)] which may include [ing] any of the following: maintenance of the statewide road network, calibrated linear referencing methods and associated GIS data layers and/or maintenance of the enterprise GIS servers, databases, associated data layers, web maps and other GIS data products as needed; ensure agency business units' ability to integrate and synchronize business data. [with LRS.]

Plan, design, modify, implement and administer multiple [departmental] spatial databases; develop and enforce administration procedures and security standards; facilitate and monitor multi-user versioned editing and viewing workflows; design, implement and monitor spatial database security, performance and availability; create database objects, user and roles; create and maintain spatial database replication environment, schedule and monitor replica synchronizations; test and perform software updates.

Install, configure and administer GIS Server application software; create, optimize, publish and monitor multiple web map, feature, geoprocessing, and search services on the intranet and internet; document web[-]service data[-]source dependencies.

Develop, implement, document and enforce GIS server-related administration procedures and security standards; monitor system utilization and responsiveness, and tune server configurations to enhance performance and ensure availability of published services; test and perform software updates; collect user requirements, design, write, test, deploy and maintain multiple statewide custom GIS software applications using multiple programming languages; develop and enforce GIS application-related operational procedures and security standards; adhere to software development best[-]practices, maintain code in shared source code repositories, and maintain technical currency with coding techniques and relevant *Information Technology* (IT) and GIS technologies.

Analyze user requirements, existing business workflows, policies, regulations and statutes to develop and implement enhanced GIS-based solutions and workflows; determine project objectives by analyzing user needs through consultation with end[-]users, technicians, analysts, management and vendors; review available hardware and/or software tools to choose *appropriate* implementation platform; identify required sequencing of steps and coordination with other [departmental] personnel; execute project steps and ensure that project deliverables meet customer requirements; provide technical support to end[-]users in order to resolve software and database related issues.

Design, implement and maintain GIS datasets and perform quality assurance/quality control procedures and corrections; perform spatial analyses and interpret and communicate analytical results; use Global Positioning System (GPS) hardware and software to collect and validate data in the field; may utilize Unmanned Aerial Systems (UAS) consisting of hardware, to include Unmanned Aerial Vehicles (UAV), to collect data in the field

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## **SERIES CONCEPT** (cont'd)

and use associated software to post process and validate collected data; produce digital and printed cartographic products using GIS software.

Coordinate and conduct formal and informal training sessions to educate [department] end[-]users on the usage of off-the-shelf and custom GIS software; coordinate with internal and external entities to disseminate and share GIS data, and collaborate on GIS projects.

Perform related duties as assigned.

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## **CLASS CONCEPTS**

[Transportation] GIS [Manager] Analyst IV: Under administrative direction, performs duties outlined in the series concept and, in addition, manages GIS functions for the department/division and [plans, organizes, controls, integrates and evaluates the work of] supervises subordinate [Transportation] GIS [Supervisors] Analyst III positions to include performance evaluations, work performance standards, work assignment and review, scheduling, training and discipline and may supervise technical and administrative staff as assigned. The incumbent is responsible for [providing] ensuring the provision of timely, efficient, and cost-effective GIS products and services including the development and maintenance of GIS applications, tools, enterprise GIS databases, and linear referencing systems as needed to meet [departmental] operational and decision support needs.

Manage the design, development, enhancement and delivery of GIS products and services to meet on[-]going and ad[-]hoc business and information needs; manage development and maintenance of geospatial data layers and databases; manage and may participate in the design and development of GIS applications and tools to automate processes and facilitate analyses and reporting; [review GIS products for accuracy, completeness and aesthetics and for compliance with customer requirements;] coordinate the delivery of services and sharing of data with other departments and outside entities; [oversee or perform complex technical work associated with projects and on-going assignments;] research alternatives and recommend appropriate, cost effective technology solutions.

Oversee and participate in the design, development, integration and maintenance of GIS database architectures, data layers and databases; perform highly complex analytical projects, including spatial and other analyses and forecast modeling; analyze, research, develop, implement and maintain processes for enhancing the utilization of GIS technologies and solutions to support [department] internal business requirements and GIS initiatives; work with [departmental] staff in the planning, design, development, configuration, testing, implementation and maintenance of large-scale GIS applications and web portals, backend processing modules and associated data layers and databases; develop, implement and monitor work plans to achieve goals and objectives.

Analyze and evaluate technology solutions to ensure their consistency and integration with [departmental] technology standards; participate in developing enterprise GIS policies, standards and procedures; [guide and mentor other GIS professionals; develop training materials and conduct training for GIS professionals;] serve as an expert resource and provide advice to agency staff and other departments or agencies on complex GIS technical issues; may serve on steering committees and advisory groups to foster cooperation and ensure consistent practices for storage, sharing, maintenance and utilization of geospatial data; write reports and prepare custom maps and other GIS products.

**Participate in the** [Prepare and evaluate] preparation and evaluation of proposals, bids, contracts and service agreements for GIS software, equipment and consulting services; [or participates in doing so;] may administer contracts; develop or assist in the development of the GIS budget; monitor expenditures against budget; participate in the development, implementation and evaluation of [departmental] goals and objectives; supervise

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## CLASS CONCEPTS (cont'd)

#### [Transportation] GIS [Manager] Analyst IV: (cont'd)

and oversee development, implementation and evaluation of programs, work processes, systems, policies and procedures to achieve annual goals, objectives and work standards; serve as a technical expert to departmental, district, and divisional managers and advises on the design and uses of GIS technologies and products that will improve business process efficiency and enhance support for decision and policy making. *This is the managerial level in the series.* 

**Transportation GIS [Supervisor] Analyst III**: Under general direction, [from the Transportation GIS **Manager**] incumbents perform the full range of duties outlined in the series concept and function as technical expert and project manager over either: design, development, testing, implementation and maintenance of large-scale or highly complex departmental and/or divisional GIS software applications, tools, and backend processing modules; <u>OR</u> data management projects, and associated data layers and databases. Incumbents **review GIS products for accuracy, completeness and aesthetics and for compliance with customer requirements;** evaluate GIS technologies and solutions; develop policies, standards and procedures; develop plans and approaches to meet project objectives; **oversee or perform complex technical work associated with projects and ongoing assignments; guide and mentor other GIS professionals and/or those utilizing GIS; develop training materials and conduct training for GIS professionals and/or other staff as assigned; and supervise a staff of lower level [Transportation] GIS Analysts. This is the supervisory level in the series.** 

**Transportation** GIS Analyst II: Under general supervision, incumbents perform the full range of duties outlined in the series concept and participate in design, testing, implementation and maintenance of [divisional and departmental] GIS software applications, tools, data management projects, and associated data layers and databases. Incumbents perform spatial analyses such as buffering, spatial overlays and distance calculations using established methods and procedures; assist in the evaluation of GIS technologies and solutions and the development of GIS policies, procedures and standards. This is the journey level in the series.

**Transportation** GIS Analyst I: Under close supervision, incumbents *continue to* receive training in performing the duties described in the series concept. This is the *continuing* trainee level in the series and progression to the next level may occur upon meeting minimum qualifications, satisfactory performance, and with the recommendation of the appointing authority.

<u>GIS Analyst Trainee</u>: Under close supervision, incumbents receive training in performing the duties described in the series concept. This is the trainee level in the series and progression to the next level may occur upon meeting minimum qualifications, satisfactory performance, and with the recommendation of the appointing authority.

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#### MINIMUM QUALIFICATIONS

## **INFORMATIONAL NOTE:**

\* Certification as a Geographic Information Systems Professional (GISP) from the GIS Certification Institute is equivalent to one year of work experience.

## [TRANSPORTATION] GIS [MANAGER] ANALYST IV

EDUCATION AND EXPERIENCE: Bachelor's degree from an accredited college or university [with a major] in geographic information systems, geography, cartography, computer information systems, or a closely related field [which included coursework in geographic information systems] and four years of [progressively responsible] professional GIS experience which included GIS/GPS data collection, analysis

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# [TRANSPORTATION] GIS [MANAGER] ANALYST IV (cont'd)

#### EDUCATION AND EXPERIENCE: (cont'd)

and validation; GIS software application development; and/or cartographic design. Two years of this experience must have also included project management [and supervision of GIS Analyst staff and] in one or more of the following: spatial database development and management, GIS application development, and/or GIS application server administration; OR Associate's degree from an accredited college or university [with a major] in geographic information systems, geography, cartography, computer information systems, or a closely related field [which included coursework in geographic information systems] and five years of [progressively responsible] professional GIS experience as described above; OR graduation from high school or equivalent education and six years of professional GIS experience as described above; OR one year of experience as a [Transportation] GIS [Supervisor] Analyst III in Nevada State service; OR an equivalent combination of education and experience as described above. (See Informational Note)

# ENTRY LEVEL KNOWLEDGE, SKILLS AND ABILITIES (required at the time of application):

**Detailed knowledge of:** capabilities and functionality of at least one major GIS software suite; *enterprise database management systems;* project management techniques and/or software application development methodologies; two or more *general purpose* programming or scripting languages; *critical spatial and non-spatial datasets*. **Working knowledge of:** GIS system architecture design and planning; multiple enterprise database management systems *and/or* linear referencing and dynamic segmentation. **Ability to:** [communicate effectively both orally and in writing; establish and maintain effective working relationships with others;] analyze data and reach logical conclusions; write grammatically correct business correspondence;] *develop and prioritize task lists and resolve problems;* supervise and mentor assigned staff; and all knowledge, skills and abilities required of the lower levels.

## FULL PERFORMANCE KNOWLEDGE, SKILLS AND ABILITIES (typically acquired on the job):

**Detailed knowledge of:** State and departmental regulations and policies concerning information security, purchasing and personnel administration; critical departmental spatial and non-spatial datasets and their relationship to the enterprise GIS system; application of linear referencing and dynamic segmentation techniques to [transportation] GIS data; major state and federally mandated reporting requirements that include or rely upon GIS data.

## [TRANSPORTATION] GIS [MANAGER] ANALYST III

EDUCATION AND EXPERIENCE: Bachelor's degree from an accredited college or university [with a major] in geographic information systems, geography, cartography, computer information systems, or a closely related field [which included coursework in geographic information systems] and three years of [progressively responsible] professional GIS experience which included GIS/GPS data collection, analysis and validation; GIS software application development; and/or cartographic design. One year of this experience must have also included one or more of the following: spatial database development and management, GIS application development, and/or GIS application server administration; OR an Associate's degree from an accredited college or university [with a major] in geographic information systems, geography, cartography, computer information systems, or a closely related field [which included coursework in geographic information systems] and four years of [progressively responsible] professional GIS experience as described above; OR one year of experience as a [Transportation] GIS Analyst II in Nevada State service; OR an equivalent combination of education and experience as described above. (See Informational Note)

ENTRY LEVEL KNOWLEDGE, SKILLS AND ABILITIES (required at the time of application): **Detailed knowledge of:** structured query language (SQL); spatial data validation techniques; spatial

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# [TRANSPORTATION] GIS [MANAGER] ANALYST III (cont'd)

ENTRY LEVEL KNOWLEDGE, SKILLS AND ABILITIES (required at the time of application): (cont'd) topologies; GIS analysis tools; multi-user GIS editing workflows. Working knowledge of: linear referencing and dynamic segmentation and/or server and web-based GIS technologies; mobile GIS technology and GPS data collection; enterprise spatial databases and database security; map services. Ability to: [collect user requirements and design a GIS dataset that includes data validation and quality assurance mechanisms;] create GIS software add-ins and stand-alone programs or web mapping applications or write moderately complex scripts to automate GIS processes; install and administer spatial databases; install and administer GIS application server software and publish map services; integrate non-spatial data with the enterprise linear referencing system and/or related GIS systems and dynamically segment data; automate routines to make corrections to improve database quality; develop geospatial data structures to model complex interrelated geographic features; lead highly complex GIS development and maintenance projects; manage and perform highly complex analytical projects; serve as an expert resource to other GIS specialists and end[-]users; [differentiate between common GIS and IT related problems;] and all knowledge, skills and abilities required at the lower levels.

FULL PERFORMANCE KNOWLEDGE, SKILLS AND ABILITIES (typically acquired on the job): (These are identical to the Entry Level Knowledge, Skills and Abilities for [Transportation] GIS [Manager] Analyst IV.)

## **TRANSPORTATION** GIS ANALYST II

EDUCATION AND EXPERIENCE: Bachelor's degree from an accredited college or university [with a major] in geographic information systems, geography, cartography, computer information systems, or a closely related field [which included coursework in geographic information systems] and two years of [progressively responsible] professional GIS experience which included GIS/GPS data collection, analysis and validation; GIS software application development; and/or cartographic design; OR an Associate's degree from an accredited college or university [with a major] in geographic information systems, geography, cartography, computer information systems, or a closely related field [which included coursework in geographic information systems] and three years of [progressively responsible] professional GIS experience as described above; OR graduation from high school or equivalent education and four years of professional GIS experience as described above; OR an equivalent combination of education and experience as described above. (See Informational Note)

ENTRY LEVEL KNOWLEDGE, SKILLS AND ABILITIES (required at time of application):

**Detailed knowledge of:** basic GIS software functionality, spatial relationships; theories, principles, and concepts related to GIS technology; geoprocessing and editing tools, and spatial data validation techniques; GIS analysis tools. **Working knowledge of:** spatial topologies; structured query language (SQL); cartographic principles, map projections and coordinate systems. **General knowledge of:** map services; enterprise spatial databases; multi-user GIS editing workflows; linear referencing and dynamic segmentation; mobile GIS technology and GPS data collection. **Ability to:** collect user requirements and design [a] GIS datasets/databases that includes data validation and quality assurance mechanisms; solve moderately complex GIS problems; differentiate between common GIS- and IT-related problems; write basic scripts to automate GIS processes; effectively train and mentor low-level users and end[-]users in the use of GIS Software; solve moderately complex GIS software problems and assist end[-]users with second-level technical support; perform moderately difficult spatial analyses; and all knowledge, skills and abilities required at the lower levels.

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# [TRANSPORTATION] GIS ANALYST II (cont'd)

FULL PERFORMANCE KNOWLEDGE, SKILLS AND ABILITIES (typically acquired on the job): (These are identical to the Entry Level Knowledge, Skills and Abilities required for [Transportation] GIS Supervisor.)

## **TRANSPORTATION** GIS ANALYST I

EDUCATION AND EXPERIENCE: Bachelor's degree from an accredited college or university [with a major] in geographic information systems, geography, cartography, computer information systems, or a closely related field [which included coursework in geographic information systems] and one year of professional GIS experience which included GIS/GPS data collection, analysis and/or validation; GIS software application development; and/or cartographic design; OR an Associate's degree from an accredited college or university [with a major] in geographic information systems, geography, cartography, computer information systems, or a closely related field [which included coursework in geographic information systems] and two years of [professional] GIS experience as described above, to include at least one year of professional GIS experience; OR graduation from high school or equivalent education and three years of GIS experience as described above to include at least one year of professional GIS experience; OR an equivalent combination of education and experience as described above. (See Informational Note)

ENTRY LEVEL KNOWLEDGE, SKILLS AND ABILITIES (required at time of application):

Working knowledge of: basic GIS software functionality; spatial relationships; theories, principles, and concepts related to GIS technology. General knowledge of: basic cartographic principles, map projections and coordinate systems; sources of information and research techniques; problem-solving methods. Ability to: create a map layout suitable for printing, edit GIS data, perform spatial and attribute queries, label features on a map; solve simple GIS software problems and assist end[-]users with first-level technical support; understand and utilize computer systems and GIS software; make mathematical and statistical computations including addition, subtraction, multiplication, division and algebra; [communicate effectively both orally and in writing;] establish and maintain effective working relationships with others; [analyze data and reach logical conclusions; write grammatically correct business correspondence; read and understand technical information] and all knowledge, skills and abilities required at the lower level.

FULL PERFORMANCE KNOWLEDGE, SKILLS AND ABILITIES (typically acquired on the job): (These are identical to the Entry Level Knowledge, Skills, and Abilities required for [Transportation] GIS Analyst II.)

## GIS ANALYST TRAINEE

EDUCATION & EXPERIENCE: Bachelor's degree from an accredited college or university in geographic information systems, geography, cartography, computer information systems, or a closely related field; OR an Associate's degree from an accredited college or university in geographic information systems, geography, cartography, computer science, computer information systems, or closely related field and one year of paraprofessional GIS experience which included GIS/GPS data collection, analysis and/or validation; GIS software application development; and/or cartographic design; OR graduation from high school or equivalent education and two years of experience as described above; OR an equivalent combination of education and experience as described above. (See Informational Note)

ENTRY LEVEL KNOWLEDGE, SKILLS AND ABILITIES (required at time of application): Working knowledge of: theories, principles and concepts related to Information Technology (IT) or GIS technology. General knowledge of: basic GIS principles and practices; sources of information and research

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# GIS ANALYST TRAINEE (cont'd)

ENTRY LEVEL KNOWLEDGE, SKILLS AND ABILITIES (required at time of application): (cont'd) techniques related to GIS; problem-solving methods; mathematical and statistical computations; English language sufficient to write grammatically correct business correspondence. Ability to: communicate effectively both verbally and in writing; analyze data and reach logical conclusions; write grammatically correct business correspondence; read and understand technical information.

FULL PERFORMANCE KNOWLEDGE, SKILLS AND ABILITIES (typically acquired on the job): (These are identical to the Entry Level Knowledge, Skills and Abilities required for GIS Analyst I.)

This class specification is used for classification, recruitment, and examination purposes. It is not to be considered a substitute for work performance standards for positions assigned to this series.

	6.343	<u>6.342</u>	<u>6.341</u>	<u>6.340</u>	<u>6.339</u>
ESTABLISHED:	3/07/13R 6/18/15UC	3/07/13R 6/18/15UC	3/07/13R 6/18/15UC	3/07/13R 6/18/15UC	<i>5/13/19UC</i>
REVISED:	5/13/19UC	5/13/19UC	5/13/19UC	<i>5/13/19UC</i>	