

MONTGOMERY COUNTY CLASSIFICATION SPECIFICATION June 2003	CLASS TITLE: COMPUTER APPLICATIONS ENGINEER	CODE: 84455
	MAJOR AGENCIES: BCC	PAGE <u>1</u> OF <u>2</u>

CLASS CONCEPT: Full performance level in the information technology profession responsible for the organization, development and storage of electronic data including the research, planning, design and development of networked computer applications in conjunction with current hardware technology development, internet/intranet based applications and voice over IP communication systems.

RANK	JOB DUTIES	MAJOR WORKER CHARACTERISTICS
1	Designs, develops, implements and maintains database and data warehouse applications; implements database changes; maintains integrity of enterprise systems; troubleshoots and monitors production database performance; programs and maintains interfaces between major department software packages; designs databases for department applications; researches, develops and maintains document management systems including document scanning and digital photos; performs major software upgrades; develops validation test plans; implements database disaster recovery plans; coordinates department's software upgrades; develops software configuration standards, travels by personal or county vehicle to campus and/or remote work sites as necessary to perform job duties.	<u>Knowledge of:</u> 3 (computer programming) 12 (office management), 13 (office practices and procedures), 14 (government structure & process*), 18 (engineering – GIS*, mapping*), 22 (electronic data processing – database management, meta database development, programming); <u>Skill in:</u> 28 (skilled trade—CAD/GIS, drafting), 29 (equipment operation—personal computer, scanners, digitizers); <u>Ability to:</u> 30f (deal with problems involving several variables in familiar context), 30i (deal with variety of variables in somewhat unfamiliar context), 30k (understand practical field of study e.g. engineering, cartography), 30o (understand somewhat abstract field of study – math, computer programming), 30q (understand most difficult classes of concept), 30r (deal with many variables & determine specific action e.g. research), 31b (read, copy & record figures accurately), 31f (use geometry & trigonometry), 31g (use statistical analysis), 32i (complete routine forms), 32j (maintain accurate records), 32n (understand manuals & verbal instructions, technical in nature), 32o (prepare meaningful, concise & accurate reports), 32q (use proper research methods in gathering data), 33c (code items from one symbolic form to another), 33e (gather, collect & classify information about data, people or things), 34c (cooperate with co-workers on group projects). 34f (handle sensitive inquiries from & contacts with officials and general public).

UNUSUAL WORKING CONDITIONS:	MINIMUM CLASS REQUIREMENTS: (Including License, If Any) Bachelors Degree in computer science, programming, engineering, mathematics or related area and 2 years experience designing and developing networked relational database software applications. -OR Associates Degree in computer science, programming, engineering, mathematics and five (5) years experience with networked relational database software (RDBMS) and programming applications.	TRAINING & DEVELOPMENT:
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CLASS CONCEPT:

RANK	JOB DUTIES	MAJOR WORKER CHARACTERISTICS
2	Analyze software requirements to determine feasibility of design within time and cost constraints, consult with engineering staff to evaluate interface between hardware and software and overall operational performance requirements; develop technical specifications for programming and mapping activities; configure, test and debug application programs; direct & implement the preparation of standard system requirements, develop standards for manuals, network organization and internet access; develop plan for department's printing needs; participate in department budget development.	<u>Knowledge of:</u> 3, 13, 14*, 18, 20, 22; <u>Skill in:</u> 28, 29; <u>Ability to:</u> 30f, 30i, 30k, 30o, 30q, 30r, 31b, 31f, 31g, 32i, 32j, 32n, 32o, 32q,33c, 33e, 34c.
3	Guide the design and integration of departments software solutions, provide technical direction regarding definitions of server, component and user interface architecture; make recommendations for system integration strategies, components architectures and database structures; manage, develop, coordinate and support special department programs and projects; (i.e., conversion of database programs to department standards, develop work order management systems, implement new systems and programs requiring knowledge of database design and programming).	<u>Knowledge of:</u> 3, 13, 14*, 18, 20, 22; <u>Skill in:</u> 28, 29; <u>Ability to:</u> 30f, 30i, 30k, 30o, 30q, 30r, 31b, 31f, 31g, 32i, 32j, 32n, 32o, 32q,33c, 33e, 34c.
4	Train staff in the use of departmental and County-wide programs/systems and coordinate outside training for standard software applications. (Performs Related Duties As Required)	<u>Knowledge of:</u> 8 (employee training & development), 10 (safety practices)*, 11b (human relations), 12, 13, 14*, 18, 20, 22; <u>Skill in:</u> 28, 29; <u>Ability to</u> 30f, 30i, 30k, 30o, 30q, 30r, 31b, 31f, 31g, 32i, 32j, 32n, 32o, 32q,33c, 33e, 34c. (*Developed After Employment)

UNUSUAL WORKING CONDITIONS:	MINIMUM CLASS REQUIREMENTS: (Including License, If Any) Valid State of Ohio driver license with acceptable driving record. (Other Evidences May Be Substitute)	TRAINING & DEVELOPMENT:
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