**Pittsburg State University**

**Job Description**

**Applications Developer I (G0E100)**

**FLSA Status:** Exempt
**Grade: 009 Salaried Staff**

**Job Family:** Information Technology
**Career Ladder:**

**Updated: 03/18/2019**

***The Job Description is the document used to assign positions to jobs. The Position Description is the document that provide details about a position that has been assigned to the job. The Position Description includes specific duties performed by the employee on the position, including the percentage of time duties are performed. The Position Description also identifies preferred education and experience and competencies (knowledge skills and abilities) in addition to those identified in the Job Description. Details in the Position Description are used to assess the performance of the employee assigned to the position.***

**General Description of Job – Primary Function, Supervision and Instruction Received, and Interactions**

*The information in this section includes the primary function of the job (what positions assigned to the job must accomplish) and the major objective (why that function is performed). Additional information may be added in the Position Description.*

**Primary Function:** The primary function of the Applications Developer I job is to develop, create and modify general computer applications software and specialized programs. Analyze user needs and develop software solutions. Design software and customize software for client use with the aim of optimizing operational efficiency. Analyze and design databases within an application area.

**Supervision and Instruction Received:** The Applications Developer I job typically reports to the Director of Development and Implementation or other appropriate administrator. Instruction received is under administrative supervision. The supervisor sets the overall objectives and resources available. Supervisor and employee, in consultation, develop deadlines, projects, and work to be done. The employee plans and carries out the assignment, resolves most of the conflicts, coordinates work with others and interprets policy on own initiative. The employee keeps the supervisor informed of progress, potentially controversial matters, or far-reaching implications.

**Interactions (purpose, with whom, frequency):** The Application Developer I interacts regularly with other information technology staff and occasionally with university administrators and staff to provide information about areas of responsibility.

**Examples of Essential Duties and Responsibilities**

*The following are examples of essential duties and responsibilities that may be required for a position assigned to this. Specific duties and the percentage of time performed are found in the Position Description for the position assigned to this job.*

1. Modify software to fix errors, adapt it to new hardware, improve its performance, or upgrade interfaces.
2. Produce initial documentation and update as needed when changes are made to software.
3. Work with departments on technical issues including software system design and maintenance.
4. Analyze information to recommend and plan the installation of new systems or modifications of an existing system.
5. Implement designs, data structures and data manipulation processes for new or modified application software. May assist more senior staff with validation by users and stakeholders.
6. Receive and document simple user requests for information, requests for assistance, or suggestions for system improvement. Assist users in resolving simple to moderately complex problems, perform needed action at the time of contact and direct action to supervisor to resolve the issues as needed.
7. Perform procedures for distributing stored or processed data, in the format and as needed by users with security protections appropriate to the data content and transmission method.
8. Perform any other related duties as required or assigned.

**Leadership, Supervisory or Management Responsibilities**

Mark an “X” next to the one statement which best describes the job, if applicable.

|  |  |
| --- | --- |
|  | Lead worker (assigns, trains, schedules, oversees, or reviews the work of others) |
|  | Supervisor (plans, staffs, evaluates and directs work of employees in a work unit) |
|  | Indirect Supervisor (delegates authority to carry out work of a unit to subordinate supervisors or managers) |

The number of employees led, supervised, or managed is included in the position description.

**Minimum Education and Experience – Required at Hire**

*The following minimum education and experience is required at time of hire. Addition education and experience may be preferred. Preferred education and experience is identified in the Position Description.*

* Bachelor’s Degree in Computer Information Systems or Computer Science (or related field). Experience and/or certifications may be substituted for education as determined by the University.

**Examples of Competencies – Knowledge, Skills and Abilities (KSA’s):**

*The competencies listed below are representative of the knowledge, skill, and/or ability that may be required. Specific competencies and frequency performed are found in the Position Description for the position assigned to this job.*

1. **Knowledge**
* **Basic Clerical Knowledge** – Knowledge of administrative and clerical procedures and systems such as word processing, managing files and records and designing forms.
* **Computers and Electronics** — Knowledge of circuit boards, processors, chips, electronic equipment, and computer hardware and software, including applications and programming.
* **Customer and Personal Service** — Knowledge of principles and processes for providing customer and personal services.
* **English Language** — Knowledge of the structure and content of the English language including the meaning and spelling of words, rules of composition, and grammar.
* **Information Technology -** Knowledge of current practices in information technology and applications, including application of technology to the teaching/learning process, including distance learning.
* **Mathematics —** Knowledge of arithmetic and algebra and their applications.
* **Shared Governance** – Knowledge of the principles and methods of working in an environment where responsibility is shared by faculty and administrators.
* **Software Development Life-Cycle (SDLC) -** - Knowledge of the process for planning, creating, testing, and deploying an information system.
1. **Skills**
* **Active Learning** — Understanding the implications of new information for both current and future problem-solving and decision-making.
* **Active Listening** — Giving full attention to what other people are saying, taking time to understand the points being made, asking questions as appropriate, and not interrupting at inappropriate times.
* **Complex Problem Solving** — Identifying complex problems and reviewing related information to develop and evaluate options and implement solutions.
* **Coordination** – Adjusting actions in relation to others’ actions.
* **Critical Thinking** — Using logic and reasoning to identify the strengths and weaknesses of alternative solutions, conclusions or approaches to problems.
* **Judgment and Decision Making** — Considering the relative costs and benefits of potential actions to choose the most appropriate one.
* **Monitoring** – Monitoring/Assessing performance of yourself, other individuals or organizations to make improvements or take corrective action.
* **Operations Analysis** — Analyzing needs and product requirements to create a design.
* **Programming** — Writing computer programs for various purposes.
* **Reading Comprehension** — Understanding written sentences and paragraphs in work related documents.
* **Service Orientation** — Actively looking for ways to help people.
* **Social Perceptiveness** – Being aware of others’ reactions and understanding why they react as they do.
* **Speaking** — Talking to others to convey information effectively.
* **Systems Analysis** — Determining how a system should work and how changes in conditions, operations, and the environment will affect outcomes.
* **Systems Evaluation** — Identifying measures or indicators of system performance and the actions needed to improve or correct performance, relative to the goals of the system.
* **Technology Design** — Generating or adapting equipment and technology to serve user needs.
* **Time Management** — Managing one's own time and the time of others.
* **Troubleshooting** — Determining causes of operating errors and deciding what to do about it.
* **Writing** – Communicating effectively in writing as appropriate for the needs of the audience.
1. **Abilities**
* **Category Flexibility** — The ability to generate or use different sets of rules for combining or grouping things in different ways.
* **Collaboration** - Ability to work collaboratively with all stakeholders (faculty, community partners, staff, etc.) to build/sustain internal and external relationships.
* **Deductive Reasoning** The ability to apply general rules to specific problems to produce answers that make sense.
* **Diversity –** The ability to effectively work in a diverse educational setting.
* **Flexibility of Closure** — The ability to identify or detect a known pattern (a figure, object, word, or sound) that is hidden in other distracting material.
* **Fluency of Ideas** — The ability to come up with a number of ideas about a topic (the number of ideas is important, not their quality, correctness, or creativity
* **Inductive Reasoning** – The ability to combine pieces of information to form general rules or conclusions (includes finding a relationship among seemingly unrelated events).
* **Information Ordering** – The ability to arrange things or actions in a certain order or pattern according to a specific rule or set of rules, and the ability to negotiate contracts and agreements.
* **Mathematical Reasoning** — The ability to choose the right mathematical methods or formulas to solve a problem.
* **Multi-Task and Deadlines** - The ability to manage multiple tasks and meet deadlines.
* **Near Vision** — The ability to see details at close range (within a few feet of the observer).
* **Oral Comprehension** — The ability to listen to and understand information and ideas presented through spoken words and sentences.
* **Oral Expression** — The ability to communicate information and ideas in speaking so others will understand.
* **Originality** — The ability to come up with unusual or clever ideas about a given topic or situation, or to develop creative ways to solve a problem.
* **Problem Sensitivity** – The ability to tell when something is wrong or is likely to go wrong. It does not involve solving the problem, only recognizing there is a problem.
* **Relationships** – The ability to work in a collegial environment with shared governance, and to establish and cultivate relationships inside and outside the University.
* **Selective Attention** — The ability to concentrate on a task over a period of time without being distracted.
* **Speech Clarity** – The ability to speak clearly so others can understand you.
* **Speech Recognition** – The ability to identify and understand the speech of another person.
* **Written Comprehension** – The ability to read and understand information and ideas presented in writing.
* **Written Expression** – The ability to communicate information and ideas in writing so others will understand.
1. **Work Activity**
* **Analyzing Data or Information** — Identifying the underlying principles, reasons, or facts of information by breaking down information or data into separate parts.
* **Communicating with Persons Outside Organization** — Communicating with people outside the organization, representing the organization to customers, the public, government, and other external sources. This information can be exchanged in person, in writing, or by telephone or e-mail.
* **Communicating with Supervisors, Peers, or Subordinates** — Providing information to supervisors, co-workers, and subordinates by telephone, in written form, e-mail, or in person.
* **Documenting/Recording Information** – Entering, transcribing, recording, storing, or maintaining information in written or electronic/magnetic form.
* **Establishing and Maintaining Interpersonal Relationships** — Developing constructive and cooperative working relationships with others and maintaining them over time.
* **Evaluating Information to Determine Compliance with Standards** — Using relevant information and individual judgment to determine whether events or processes comply with laws, regulations, or standards.
* **Getting Information** — Observing, receiving, and otherwise obtaining information from all relevant sources.
* **Identifying Objects, Actions, and Events** — Identifying information by categorizing, estimating, recognizing differences or similarities, and detecting changes in circumstances or events.
* **Interacting With Computers** — Using computers and computer systems to enter data, or process information.
* **Interpreting the Meaning of Information for Others** — Translating or explaining what information means and how it can be used.
* **Making Decisions and Solving Problems** – Analyzing information and evaluating results to choose the best solution and solve problems.
* **Monitor Processes, Materials, or Surroundings** — Monitoring and reviewing information from materials, events, or the environment, to detect or assess problems.
* **Organizing, Planning, and Prioritizing Work** — Developing specific goals and plans to prioritize, organize, and accomplish your work.
* **Processing Information** — Compiling, coding, categorizing, calculating, tabulating, auditing, or verifying information or data.
* **Thinking Creatively** — Developing, designing, or creating new applications, ideas, relationships, systems, or products, including artistic contributions.
* **Updating and Using Relevant Knowledge** — Keeping up-to-date technically and applying new knowledge to your job.

**Environmental Conditions (Hazards, Risks or Discomforts)**

*The environment conditions listed below are representative of the environmental conditions that may be present for a position assigned to this job. Environmental conditions for a position are found in the Position Description for the position assigned to this job.*

* General office conditions.
* May be exposed to moderate noise levels

**Equipment or Machines Used**

*The following are examples of equipment or machines that may be regularly used to perform the duties of the position. Specific equipment and the frequency used is found in the Position Description for the position assigned to this job.*

* Office Equipment, such as printers, copiers, fax machines, and calculators.
* Communication Equipment, such as smartphones and multi-line telephones
* Computers and Peripherals, such as computers, scanners and software.

**License or Certification Required by Statute or Regulation**

*List license(s) or certification(s) appropriate for the position. Indicate those that are required by statute or regulation at time of hire.*

None

**Additional Requirements**

*The following are examples of additional requirements that may be required to perform the duties of the position. Additional requirements for a position are found in the Position Description for the position assigned to this job.*

* Regular attendance is a necessary and essential function
* Satisfactory Pre-Hire Background Checks Required:
	+ Sex Offender Registry Check
	+ Criminal Record

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