**Analyst Programmer**

**Please see Special Instructions for more details.**

Applications will be reviewed based on the information submitted on the employment profile with education and work history along with any other requested documentation i.e. Posting specific question responses, transcripts, etc. **Your profile MUST clearly show how you meet the minimum/required qualifications for the position.** Resumes are NOT accepted at the application stage for classified staff positions. Typically, the starting salary is at the lower end of the salary range. For additional information please contact: Angela Williamson at angela.williamson@oregonstate.edu OSU commits to inclusive excellence by advancing equity and diversity in all that we do. We are an Affirmative Action/Equal Opportunity employer, and particularly encourage applications from members of historically underrepresented racial/ethnic groups, women, individuals with disabilities, veterans, LGBTQ community members, and others who demonstrate the ability to help us achieve our vision of a diverse and inclusive community. This position is designated as a critical or security-sensitive position; therefore, the incumbent must successfully complete a criminal history check and be determined to be position qualified as per OSU Standard 576-055-0000 et seq. Incumbents are required to self-report convictions and those in youth programs may have additional criminal history checks every 24 months. Offers of employment are contingent upon meeting all minimum qualifications including the criminal history check requirement.

**Position Details**

**Position Information**

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| **Department** | Entrprse Computing Svcs (JIS) |
| **Classification Title** | Analyst Programmer |
| **Job Title** | Analyst Programmer |
| **Appointment Type** | Classified Staff |
| **Job Location** | Corvallis |
| **Position Appointment Percent** | 100 |
| **Appointment Basis** | 12 |
| **Pay Method** | Salary |
| **Min Salary** | $5530 |
| **Max Salary** | $8769 |
| **Employment Category** | Regular |
| **Position Summary** | This recruitment will be used to fill one full-time Analyst Programmer, competency level 3, position for Enterprise Computing Services at Oregon State University (OSU).  As an area within Oregon State University, Information Services shares and supports the University’s overall mission by assisting all areas of the university in extending their programs, teaching, research and communication throughout the world. The services provided by the Information Services Units, including Academic Technology, Enterprise Computing, Infrastructure Services, and Web and Mobile Services, assist the university community by facilitating the transmission of knowledge of expertise to its members thereby enhancing their ability to be productive, valued and esteemed members of the University serving the State of Oregon. Services will be provided to students, faculty and staff for the curricular, research, intellectual and administrative activities and needs. There are approximately 195 faculty, classified and management services employees in Information Services as well as 30-40 FTE student positions. Information Services administers a total budget of $25+ million.  This position provides design, analysis and programming support for a web services API infrastructure for data propagation, as well as the analysis and development of other tools and product integrations. This position functions within a team-based management environment. |
| **Position Duties** | 60% Act as an applications architect in the design, development and implementation of web services APIs in conjunction with data propagation efforts for all different data types. Design review & test phases of associated projects. Design, analyze and code programs in a variety of software languages for use in the web services APIs, web, device, or other application-based environment. Examine application interface between the users and underlying application code. Develop and modify complex applications in a team-programming environment. Give direction as necessary to other programmers and student developers in the team environment. Document all code and processes following standards outlined by the organization. This position performs these duties in collaboration with other programmers, but often acts as an applications architect in the overarching application design. Act as an advanced resource for other programmers. Provide problem resolution and advanced troubleshooting for problems escalated to the programmer. Use all tools required for the organization. Participate in the enhancement and modification of vendor supplied software and custom applications. This includes but is not limited to:  •Responsible for establishing the roadmap, managing the design and enhancing the Apigee platform and solutions for API related capabilities across the enterprise.  •Providing analysis, design, and code for enhancements necessary for web services APIs, data integrations, and other business processes.  •Developing and enhancing applications using languages/tools like Java, JavaScript/JQuery, Git, Yaml, Groovy, Ruby and Jenkins.  •Building enhanced automation using IT configuration management tools (i.e. Ansible, Chef, Puppet).  25% Providing guidance as an analyst/programmer III to 2 analyst/programmers and two student developers. This includes but is not limited to:  •Guidance on how to analyze, design, code, and document interfaces and web services APIs between existing and new campus applications and data repositories.  •Developing applications using an iterative application development methodology and peer reviews to better align user requirements with application solutions.  10% Act as a resource for problem resolution. Incumbent will be able to respond to questions from users as well as peers in the organization. User questions may include requests regarding logic changes in existing programming or inquiries about major system functions. Peer questions would include requests for assistance in debugging new code as well as troubleshooting for system malfunctions.  5% Participate as a member of the Middleware Integration Solutions team and participate with regional and/or national organizations and forums. Time spent attending meetings, participating in design sessions on a local, regional, and national level. Incumbent will participate in team discussions on best practices for new systems designs as well as modifications to existing software packages. These discussions could include reviews of logic diagrams, flow charts, coding practices, debugging techniques, and best practice testing. |
| **Minimum Qualifications** | This classification requires a basic foundation of knowledge and skills in systems analysis and related programming support functions generally obtained by a bachelor’s degree in computer science, or an equivalent amount of training and applied experience. |
| **Additional Required Qualifications** | A demonstrable commitment to promoting and enhancing diversity.  The employee needs well developed interpersonal, teamwork, verbal and written communication skills  Presentation skills with a high degree of comfort with both large and small audiences  Ability to provide technical information in layman’s terms  This classification requires an advanced foundation of knowledge and skills in systems analysis and related programming support functions generally obtained by a Bachelor’s Degree in Computer Science or an equivalent number of years and experience.  Experience as an application architect in a professional setting, designing APIs for high performance, high throughput, scalable apps  Extensive experience using languages/tools like Java, JavaScript, jQuery, Git, YAML, Groovy, Ruby, and Jenkins  Extensive development experience in web services architecture  This position is designated as a critical or security-sensitive position; therefore, the incumbent must successfully complete a criminal history check and be determined to be position qualified as per OSU Standard 576-055-0000 et seq. Incumbents are required to self-report convictions and those in youth programs may have additional criminal history checks every 24 months. |
| **Preferred (Special) Qualifications** | Understanding of emerging IoT and Mobile technologies and communications protocols  Experience developing applications using the Apigee platform  Experience with IT configuration management tools (i.e., Ansible, Chef, Puppet)  Experience with code management tools. (i.e. Dynatrace, New Relic, Appdynamics)  Expert level knowledge of REST API/service patterns and best practices  Intermediate/advanced knowledge of the cloud services, market segments, customer base and industry verticals  Advanced foundation of knowledge and skills in systems analysis and related programming support functions generally obtained by a Master’s Degree in Computer Science or an equivalent number of years and experience |
| **Working Conditions / Work Schedule** | The incumbent should be prepared to be on site during core office hours with flextime to meet an 8-hour workday as well as off hours where systems will be updated and tested to insure they meet university needs. |
| **This position is deemed essential and the incumbent may be expected to report to work during inclement weather, emergency and other University work curtailments or closures.** | No |
| **This position requires a clear and unambiguous commitment to compliance of all National Collegiate Athletic Association (NCAA) regulations for Division I (FBS) universities.** | No |

**Posting Detail Information**

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| **Posting Number** | P01358CT |
| **Number of Vacancies** | 1 |
| **Anticipated Appointment Begin Date** | 05/01/2018 |
| **Anticipated Appointment End Date** |  |
| **Posting Date** | 01/18/2018 |
| **Full Consideration Date** |  |
| **Closing Date** | 03/15/2018 |
| **Indicate how you intend to recruit for this search** | Competitive / External - open to ALL qualified applicants |
| **Special Instructions to Applicants** | Applications will be reviewed based on the information submitted on the employment profile with education and work history along with any other requested documentation i.e. Posting specific question responses, transcripts, etc. **Your profile MUST clearly show how you meet the minimum/required qualifications for the position.** Resumes are NOT accepted at the application stage for classified staff positions.  Typically, the starting salary is at the lower end of the salary range.  For additional information please contact: Angela Williamson at angela.williamson@oregonstate.edu  OSU commits to inclusive excellence by advancing equity and diversity in all that we do. We are an Affirmative Action/Equal Opportunity employer, and particularly encourage applications from members of historically underrepresented racial/ethnic groups, women, individuals with disabilities, veterans, LGBTQ community members, and others who demonstrate the ability to help us achieve our vision of a diverse and inclusive community.  This position is designated as a critical or security-sensitive position; therefore, the incumbent must successfully complete a criminal history check and be determined to be position qualified as per OSU Standard 576-055-0000 et seq. Incumbents are required to self-report convictions and those in youth programs may have additional criminal history checks every 24 months. Offers of employment are contingent upon meeting all minimum qualifications including the criminal history check requirement. |

**Supplemental Questions**

Required fields are indicated with an asterisk (\*).

1. \* What is your favorite programming language? Your least favorite and why?

(Open Ended Question)

1. \* When writing an algorithm to calculate the fibonacci sequence, would you use iteration or recursion and why?

(Open Ended Question)

1. \* Provide us with the link to your github account that includes a project/code sample that you're proud of.

(Open Ended Question)

1. \* In a language of your choice, find a 9 letter string of characters that contains only letters from acdegilmnoprstuw such that the hash(the\_string) is 910897038977002 if hash is defined by the following pseudo-code: Int64 hash (String s) { Int64 h = 7 String letters = "acdegilmnoprstuw" for(Int32 i = 0; i < s.length; i++) { h = (h \* 37 + letters.indexOf(s[i])) } return h } For example, if we were trying to find the 7 letter string where hash(the\_string) was 680131659347, the answer would be "leepadg".

(Open Ended Question)

**Documents Needed to Apply**

**Required Documents**

**Optional Documents**

1. Other Document 1 (see Special Instructions)