Posting Notice

Personnel Requisition Details

Job Type Description:	Software Engineer II
FLSA:	Exempt
Secondary Title:	Control / ObOps
Scientific Title:	
Position Type:	Staff Position
Division:	ALMA - Computing IPT
Location of Position:	Science Operations Center, Socorro, NM
Job Status:	Regular Full Time
FTE:	1.0
Length of Appointment:	At-will
Work Schedule:	Normal Business Hours
Amount of Travel Required:	Occasional
Number of Positions Supervised:	0
Position Summary:	The Atacama Large Millimeter/sub-millimeter Array (ALMA), an international partnership of Europe, North America and East Asia in cooperation with the Republic of Chile, is the largest ground based astronomical project in existence. ALMA will be a single telescope of revolutionary design, composed initially of 66 high precision antennas located on the Chajnantor plateau, 5000 meters altitude in northern Chile. Users interact with the telescope's software system through several Web applications and Java GUIs. This includes astronomical investigators submitting observation proposals; astronomers on-duty and operators monitoring the observation progress, registering their status and quality; and engineers carrying on integration, verification and troubleshooting activities. The successful candidate will participate in the development of these user interfaces, working half of his time on the Observatory Operations Support Software (ObOps) group, based in Garching, Germany; and the other half of this time on the Control Software group, in Socorro, New Mexico. As this position is based on Socorro, the candidate will interact directly with the Control team, but will coordinate development activities remotely with the ObOps team. Some domestic and international travel, particularly to the ALMA operational site in Chile and to Garching, Germany will be required. Because of the relative small size of the team, the candidate is expected to participate in all aspects of the software development effort, including requirement elicitation, design, implementation, maintenance, and documentation. Software developers are expected to write developer and user level documentation.

Job Duties Summary:	* Development of applications interfacing to the ALMA User Repository, including the public Web pages and infrastructure (persistence) code. * Participate on the development of ALMA Single Sign-on system. * Maintain the quick look components. These are several components that provide feedback to the telescope operator and astronomer on duty about the state of an observation, plotting several calibration results and generating quality metric reports. * Maintain the TMCDB Explorer. This is an Eclipse RCP application that is used to maintain the Telescope Configuration Database. * Complete and improve the Hardware Device GUIs. These are interfaces that provide a graphical view of the telescope hardware.
Competency Summary:	* Interfacing Java to relational and/or XML databases: JDBC, Hibernate. * Java Web-based applications: servlets, JSPs, AJAX. * Rich Internet Application frameworks: ZK or GWT. * Java Graphical User Interfaces, using Swing and SWT. * High-level frameworks: Spring, Grails. * Familiarity with modern software engineering practices and tools, including UML modeling, CVS/Subversion, unit testing, IDE-based development (e.g. Eclipse), JIRA. * Excellent command of the English language (oral and written) is required. * Relational database development experience, in particular with Oracle, would be an asset. * Experience developing in Unix/Linux would be an asset.
Minimum Education:	BS in Computer Science or related field.
Preferred Education:	
Minimum Experience:	3-5 years related experience.
Preferred Experience:	
Physical Demands:	Ability to work at a computer for sustained periods of time.
Work Environment:	In door, climate controlled.
Requisition Number:	00447
Job Open Date:	04-05-2013