Posting Notice

Personnel Requisition Details

Job Type Description:	Electronics Engineer I
FLSA:	Exempt
Secondary Title:	Senior Instrument Engineer
Scientific Title:	
Position Type:	International Staff Position
Division:	Joint ALMA Office
Location of Position:	Santiago, Chile and ALMA Operations Support Facility (OSF) near San Pedro de Atacama
Job Status:	Regular Full Time
FTE:	1
Length of Appointment:	Three years with the possibility of a fixed term or indefinite extension.
Work Schedule:	Rotating Shift
Amount of Travel Required:	Minimal
Number of Positions Supervised:	None
Position Summary:	The Atacama Large Millimeter/submillimeter Array (ALMA) is a (sub)millimeter wave interferometer consisting of 66 antennas located on the Llano de Chajnantor in the Atacama Desert of northern Chile, and equipped with receivers covering atmospheric windows between 30 and 950 GHz. ALMA is a partnership of the European Organization for Astronomical Research in the Southern Hemisphere (ESO representing its member states), National Science Foundation (NSF USA) and National Institutes of Natural Sciences (NINS Japan), together with National Research Council (NRC Canada) and National Science Council (NSC) and Academia Sinica Institute of Astronomy and Astrophysics (ASIAA Taiwan), in cooperation with the Republic of Chile. The Joint ALMA Observatory (JAO) is operated by ESO, Associated Universities Inc/National Radio Astronomy Observatory (AUI/NRAO) and the National Astronomical Observatory of Japan (NAOJ).
	Within the Joint ALMA Observatory (Chile), the ALMA Department of Engineering is responsible for all aspects of the technical operation of the Array. This includes: preventive and corrective maintenance for major array sub-systems; problem reporting & tracking; re-verification of array systems and sub-systems; antenna transportation and array re-configuration; as well as support of development projects. The Sr Instrument Engineer will be a member of the Array System Group (ASG) within the ALMA Department of Engineering. The position will report to the Array Lead Engineer regarding technical matters and to the ASG Manager for other aspects. He/she will work closely with system astronomers of the Department of Science Operations and ADE engineering staff. Main Responsibilities:

Job Duties Summary:	-Bring broad technical knowledge of astronomical instrumentation to the observatory and transfer such knowledge to the broader engineering staff; -Lead the observatory fault diagnostics effort through problem analysis and liaison between system astronomers and engineering staff to facilitate this process; -Support the technical investigation of major technical failures through the formal non-conformance process; -Monitor the technical performance of the array and propose, design, and lead the implementation of upgrades to optimize performance and the overall operations of ALMA instrumentation; -Support the ALMA development program by providing technical review and analysis of project proposals, as well as other relevant documentation. -Other duties as assigned.
Competency Summary:	-Familiarity with systems engineering and product assurance processes as applied to large engineering projects. -Familiarity with modern astronomical data analysis packages such as CASA.
Minimum Education:	Bachelor's degree in Electronic Engineering, Physics or related area required. Masters degree in Electronic Engineering, Physics or equivalent expertise.
Preferred Education:	A PhD will be considered an asset.
Minimum Experience:	-A minimum of 5 years experience with astronomy instrumentation, preferably related to (sub-) mm wavelength single-dish or interferomety systems. -Demonstrated experience with using scripting languages, such as python, to execute testing of instrumentation.
Preferred Experience:	
Physical Demands:	-Due to travel requirements and work at high altitudes, a successful high altitude medical check is a necessary condition of employment for this position.
Work Environment:	The position is based at the ALMA Operations Support Facility (OSF) near San Pedro de Atacama at 2900m with occasional visits to the ALMA office in Santiago, Chile. May be required occasionally to work at the remote Array Operations Site (AOS) at 5000m above sea level.
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Skills & Abilities (ie Software, Hardware, Certifi	-Strong knowledge of application software, including spreadsheets, word processing, planning programs and use of web facilities; -Excellent interpersonal skills, high ability to establish and maintain effective working relationships in a multi-cultural environment; -Excellent level of written and spoken English. Knowledge of Spanish or the willingness to obtain a basic level of the language would be an advantage; -Ability to work at a remote location such as an astronomical observatory;
Job Open Date:	11-05-2013
Job Close Date:	Open Until Filled
	ALMA International Staff will be recruited as employees of either ESO or AUI/NRAO or NAOJ. Each of these employers offer competitive remuneration packages including a competitive salary as well as comprehensive social benefits, and provide financial support in

Special Instructions to Applicants:	relocating families. Furthermore, if applicable, an expatriation allowance as well as some other allowances will be added. Qualified applicants are invited to apply by submitting an application to ESO, AUI/NRAO or NAOJ. Applications must be completed in English and should include a cover letter, CV, and three letters of reference. Applicants submitting their application to NRAO are invited to apply online at https://careers.nrao.edu. Please combine into one PDF file a cover letter and curriculum vitae and attach to your application. As part of the NRAO application process, you will be prompted for the names and contact information of three individuals, who are familiar with your experience and abilities, for letters of reference. Once you complete the application process successfully, you will receive a confirmation number. At that time, your referees will be sent an automated e-mail requesting they provide a reference letter on your behalf. If you have any questions regarding this process, please contact LaTonya Richardson at lrichard@nrao.edu. Applicants submitting their application to ESO are invited to apply online at https://jobs.eso.org/. The position requires three letters of reference which shall be sent to vacancies@alma.cl. Applicants submitting their application to NAOJ are invited to apply by sending their cover letter, CV and three letters of reference via email to Tetsuo Hasegawa at tetsuo.hasegawa@nao.ac.jp. Deadline for receipt of applications to be considered for the position isv November 22, 2013. For further information please consult (almaobservatory.org), as well as the ESO, NRAO, and/or NAOJ Home Pages: (www.eso.org), (www.nrao.edu) (alma.mtk.nao.ac.jp/e/). ESO, AUI/NRAO and NAOJ are Equal Opportunity Employers.
Required Applicant Documents:	Other Document
Optional Applicant Documents:	Resume/Curriculum Vitae Cover Letter Other Document