



Posting Notice

Personnel Requisition Details

Job Type Description:	Division Head
FLSA:	Exempt
Secondary Title:	Head of the ALMA Department of Engineering (ADE)
Scientific Title:	
Position Type:	International Staff Position
Division:	Joint ALMA Office
Location of Position:	Santiago, Chile
Job Status:	Regular Full Time
FTE:	1
Length of Appointment:	Three years
Work Schedule:	Rotating Shift
Amount of Travel Required:	Moderate
Number of Positions Supervised:	130
Position Summary:	<p>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).</p> <p>The JAO is responsible for the overall leadership and management of construction, commissioning and operations of ALMA.</p> <p>The Joint ALMA Observatory (JAO) is seeking a senior engineering manager with extensive experience to lead its Department of Engineering, which is responsible for the engineering operation of the international ALMA radio astronomy observatory in Chile. This is an outstanding opportunity to lead the engineering efforts associated with one of the most challenging technology projects in the world.</p> <p>An initial term of employment is intended for a period of three years with the possibility of a fixed-term extension or indefinite appointment. Actual contractual terms will be defined by the selected employer (ESO, AUI/NRAO or NAOJ).</p>

	<p>The Head of the ALMA Department of Engineering (ADE) will be responsible for the management and leadership of the JAO's largest department, currently home to approximately 130 staff - around half of the entire staff of the JAO. The Head of ADE will report to the ALMA Director, and will be a member of the JAO's core management team. The Head of ADE will be responsible for the engineering and technical staff within the JAO and for the work outcomes from those staff including Systems Integration efforts, the ongoing engineering operations of the array and overall maintenance issues. The Head of ADE will also be expected to make key contributions to the strategic planning, policy development and implementation, as well as overall decision-making of the JAO.</p> <p>The ALMA project is nearing the end of construction and heading into full operations in 2014. All 66 antennas have been delivered and scientific activities are ramping up. Use of the array will require careful attention and consultation on the part of the Head of ADE within the JAO and the Executives (ESO, AUI/NRAO, NAOJ).</p> <p>Basic requirements for the position include an advanced degree in physics, engineering or a closely related discipline, an established track record of success in the management of a sizable engineering group, and a record of successful delivery of engineering outcomes. The Head of ADE must also have excellent communication skills required to work within a complex international partnership. Experience in engineering management in an operational or research oriented scientific environment is also desirable.</p>
Job Duties Summary:	<p>The Head of the ALMA Department of Engineering will be responsible for the following:</p> <ul style="list-style-type: none"> -Delivery of all JAO engineering outcomes includes: Integration of system upgrades of the array. Ongoing characterization of the engineering performance. Identification of opportunities to improve the engineering performance. Implementation of engineering improvements. Preventive and corrective maintenance; -Optimizing and implementing the maintenance plan. This plan should address preventive and corrective maintenance for the high-technology array sub-systems, including antennas, instrumentation packages, local oscillator, correlator, electricity supply and infra-structure monitoring equipment; -Overseeing observatory performance, trend analysis, fault reporting and tracking of the array sub-systems; -Monitoring and managing the array system configuration status and associated antenna transportations; -Managing the resources of the ADE, including the budget, staff plan, and the allocation of staff to tasks and projects; -Managing the professional development, training and certifications of ADE staff; -Leading a coordination team within the ALMA partnership.
Competency Summary:	
Minimum Education:	Advanced university degree (MSc, PhD) in Physics, Electrical Engineering or a closely related discipline, or equivalent expertise.
Preferred Education:	
	At least ten years of relevant field engineering work experience in a

Minimum Experience:	large research and/or high technology project.
Preferred Experience:	<p>- Preference may be given to applicants with relevant experience in observatory or research facility or similar environments.</p> <p>- Demonstrated knowledge and expertise of radiofrequency techniques, preferably in the mm/submm range, will be considered an important asset.</p>
Physical Demands:	
Work Environment:	<p>- Due to travel requirements and work at high altitudes, a successful high altitude medical check is a necessary condition of employment for this position.</p> <p>- The duty station is the Santiago Office with frequent (50%+) travel to the ALMA operations site near San Pedro de Atacama: the Operations Support Facility (OSF) at 2900 m and the Array Operations Site (AOS) located on the nearby Llano de Chajnantor at 5000 m altitude. Occasional international travel may be required as well.</p>
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Skills & Abilities (ie Software, Hardware, Certifi	<p>- Proven ability to operate in complex organizational structures and to integrate organizational strategy and work unit's goals;</p> <p>- Proven capability to establish, identify and communicate a broad and compelling organizational direction;</p> <p>- Excellent managerial and leadership skills;</p> <p>- Demonstrated ability to perform and/or oversee the analysis of complex policy and program issues in areas such as human resources, finance, logistics and administration;</p> <p>- Strong ability to lead, supervise, mentor, and evaluate staff with diverse cultural backgrounds, as well as to design training and skills-enhancement initiatives that ensure effective staff development;</p> <p>- Outstanding interpersonal and communication skills; fluency in English (oral and written) is essential; knowledge of Spanish will be an asset.</p>
Job Open Date:	10-18-2013
Job Close Date:	Open Until Filled
	<p>ALMA International Staff will be recruited as employees of ESO, 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 relocating families. Furthermore, if applicable, an expatriation allowance as well as some other allowances will be added.</p> <p>Qualified engineering managers with extensive relevant experience 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.</p> <p>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</p>

Special Instructions to Applicants:	<p>they provide a reference letter on your behalf. If you have any questions regarding this process, please contact LaTonya Richardson at lrichard@nrao.edu.</p> <p>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.</p> <p>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.</p> <p>The initial deadline for receipt of applications to be considered for the position is November 22, 2013. However, applications will continue to be accepted until the position is filled.</p> <p>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/).</p> <p>Applicants with questions about the duties and responsibilities of this position, or about the JAO and this role generally, please contact Marylin Keating at mkeating@alma.cl.</p> <p>ESO, AUI/NRAO and NAOJ are Equal Opportunity Employers.</p>
Required Applicant Documents:	Other Document
Optional Applicant Documents:	<p>Resume/Curriculum Vitae</p> <p>Cover Letter</p> <p>Other Document</p>