

NRAO/ESO Vacancies for ALMA Key Personnel

The Atacama Large Millimeter Array (ALMA) will be a millimeter-submillimeter wave interferometer consisting of (64) 12m diameter antennas located on the Chajnantor Altiplano in the Atacama Desert of northern Chile. Built and operated by a bilateral North American (United States and Canada) - European (ESO member states and Spain) partnership, ALMA will be equipped initially with dual-polarization receivers covering 4 atmospheric windows: 84 – 119 GHz, 211 - 275 GHz, 275 - 370 GHz, and 602 - 720 GHz. The project, with a budget which exceeds half a billion dollars, is being carried out jointly by the European Southern Observatory (ESO) and the National Radio Astronomy Observatory (NRAO), managed by Associated Universities, Inc. The Governing Board of ALMA, made up of members representing the above mentioned parties/partners has created the Joint ALMA Office (JAO) which is responsible for the overall leadership and management of construction, commissioning, early operations, and operations of ALMA as Observatory.

The Joint Personnel Search Committee of the ALMA Board is now seeking applicants for the key positions within the JAO:

ALMA Director Massimo Tarenghi

SUMMARY: The Director has the overall responsibility of leading the ALMA project and representing it to the global astronomical community and the funding agencies supporting the project. The Director reports to the ALMA Board, which will review the Director's progress on the project annually. The Director will be responsible for the operation of the Joint ALMA Office, and will ensure that ALMA is constructed to specification, on schedule and within the costs set out in the ALMA Bilateral Agreement. The Director will allocate observing time during early operations and operations in accordance with policies and procedures determined by the Board. Basic requirements for the position include a Ph.D. in astronomy, astrophysics, physics or a related field and a proven record of scientific leadership. The selected candidate must have significant management experience. Previous experience with large international scientific collaborations is desired.

ALMA Project Manager

SUMMARY: The Project Manager is responsible for the overall direction of the ALMA construction conducted by the North American and European project managers, for maintaining the integrity of the project schedule and work breakdown structure, and for periodically reviewing and summarizing the state of the project for the ALMA Management Advisory Committee. The Project Manager is also responsible for coordinating the ongoing ALMA technical development program carried out through the two project executives. The Project Manager reports to the ALMA Director, and his/her performance will be reviewed annually by the ALMA Board. Basic requirements for the

position include an advanced degree in the physical sciences or engineering, and an established record of success in managing large projects. Experience in the management of international scientific projects is highly desirable.

ALMA Project Scientist

SUMMARY: The Project Scientist serves as the primary contact between the ALMA project and its various scientific constituencies, for example, the ALMA Scientific Advisory Committee, with respect to the scientific capabilities and mission of the instrument, serving as the ALMA project's primary advocate for the array's scientific capabilities and needs. The Project Scientist reports to the ALMA Director and his/her performance will be reviewed annually by the ALMA Board. Basic requirements for the position include a Ph.D. in astronomy, astrophysics, physics or a related field, and a record of leadership and ability in the field of radio astronomy. Experience in radio astronomical interferometry is highly desirable.

ALMA Project Engineer

SUMMARY: The Project Engineer ensures that the project as implemented fulfills the instrument's technical specifications. His/her duties include maintaining the integrity of ALMA's technical specifications, overseeing the definition, design, production, integration, verification and validation of ALMA's major components, overseeing the project's change control process, and developing and maintaining a detailed program to balance the requirements of completing construction, commissioning the ALMA components as they are completed, and initiating and maintaining early operations. The Project Engineer reports to the ALMA Project Manager and will be reviewed annually by the ALMA Board. Basic requirements for the position include an advanced degree in the physical sciences, or engineering; experience in astronomical project engineering is desirable.

All applications should include the names of five individuals willing to serve as professional references for the applicant.

Appointments to these positions are expected. The initial location of the JAO will be decided in consultation with the Director, but the JAO is expected to be located in Chile by the start of 2004. ALMA Key Personnel will be selected by international search solely on the basis of professional qualification and merit, and irrespective of national origin. Their appointment requires the concurrence of the ALMA Board. It is intended that the Director will be consulted in the appointment of further staff to the JAO. Applications for these positions below should be sent to the Personnel Office, at either of the following addresses: ESO**, Karl-Schwarzschild-Str. 2, Garching, D-85748, Germany; or NRAO*, 520 Edgemont Road, Charlottesville VA 22903 USA. The Search Committee will begin reviewing applications on TBD. Applications will be considered until the positions are filled.

Remuneration: ALMA Key Personnel will be hired as employees of either ESO or AUI/NRAO. ESO and AUI/NRAO offer attractive remuneration packages including a competitive salary, comprehensive benefits, and provide financial support in relocating families. Furthermore, an expatriation allowance as well as some other allowances may be added.