

JOB VACANCY ANNOUNCEMENT

Associate Professor, NAOJ ALMA Project, National Astronomical Observatory of Japan (NAOJ)

1. Vacant post: One Associate Professor

2.

(1) Division: NAOJ ALMA Project

(2) Duty Station: Santiago (Chile) with frequent trips to Mitaka, Tokyo, and the ALMA site (Chile)

3. Area of Expertise: Radio Astronomy, Radio Astronomy Instrumentation, Systems Engineering and Electrical Engineering

4. Job Description:

This Associate Professor is for a person with a deep knowledge of radio telescope antennas and instrumentation, who will assist the East Asia (EA) ALMA Integrated Engineering Team (IET) Manager and work as the Team Leader of the NAOJ ALMA Antenna group. This person will be based in Chile, for close communication with the IET manager and the staff at the Joint ALMA Observatory (JAO), and have frequent trips to the ALMA site, to be in close contact with the rest of the antenna team there and with the Japanese ALMA antennas, and to Japan for face-to-face discussion and negotiation with the Japanese ALMA antenna manufacturer, and with the rest of the ALMA team in Mitaka. Some of the tasks associated to this position are:

- Lead the NAOJ ALMA Antenna team under the IET Manager and in close communication with JAO
- Monitor and steer the problem reporting and investigation process of the Japanese ALMA antenna in JAO
- Coordinate the necessary repairs, maintenance and overhauls of the Japanese ALMA antennas in close communication with the manufacturer
- Propose ALMA antenna upgrades (both in hardware and software) which could lead to further improvements on antenna performance
- Assist the IET Manager with the support of ACA correlator and receiver maintenance on-site, in close coordination with the teams in Mitaka and JAO
- Support some activities of the NAOJ ALMA Development Program as required
- Support design reviews for other NAOJ projects (e.g. TMT or future projects) or even contribute some work to them if requested

The successful candidate is also expected to be the IET Manager of the EA ALMA Support Center in the future, whose roles include:

- Establish the operations and maintenance plans of the ALMA to keep ALMA high science performance.
- Lead the offsite maintenance for the deliverables from the EA ALMA such as ACA antennas, ACA correlator, B4/8/10 Receivers, and future instruments, in close coordination and collaboration with the Engineering managers of the JAO and of the European and North American Executives.
- Coordinate the activities of the safety, product assurance, logistics, asset, and document controls related to the EA deliverables, such as ACA antennas and the science equipment to JAO in cooperation with the NAOJ ALMA Project staff.

Apart from high technical knowledge on antennas and instrumentation, the successful candidate must have good communication and negotiation skills, and be able to work in large international teams in English. A good knowledge of Japanese is also required for discussion with the antenna manufacturer and different vendors in Japan.

Finally, the successful candidate is expected to perform her/his own research with ALMA, and mentor younger engineers. It is envisioned that the successful candidate will raise the state of NAOJ presence within ALMA, as an overall outcome of the above activities.

5. Terms of Appointment:

- (1) Start of employment: As soon as reasonably possible after selection
- (2) Term of employment: Indefinite (subject to the retirement age of 65)

6. Educational Requirement: Ph.D. or equivalent

She/he needs to be sufficiently proficient in English and Japanese to take part in scientific/technical discussions in face-to-face meetings, video conferences and teleconferences.

7. Required Application Materials: (*To be prepared in English. Any other language will not be accepted)

- (1) Cover letter
- (2) Curriculum vitae (research history to be included. If you have any achievement in a research/development project as a group member, describe your contribution to it in details.)
- (3) List of research papers (peer-reviewed papers should be separated from others. For co-authored papers, roles played by applicant should be specified.)
- (4) PDF copies of three important research papers.
- (5) Your commitment and plan to fulfill the duties (including your research plan as needed)
- (6) Your address (e-mail and phone) for a prompt contact
- (7) Two or more reference letters (please ask the reference persons to send the letter attached to an e-mail to the submission address shown in 9. (1) to arrive before the application deadline.)

8. Application Deadline: 2019-01-25, 17:00 (Japan Standard Time)

9. Submission:

- (1) Send your application documents by e-mail to;
E-mail: apply-alma-assocprof20190125_AT_ao.ac.jp (replace _AT_ with @)
Subject of e-mail: "Application for Associate Professor of NAOJ ALMA Project".
- (2) If you have any question, contact;
Alvaro Gonzalez, NAOJ ALMA Project Manager
E-mail: Alvaro.Gonzalez_AT_ao.ac.jp (replace _AT_ with @).
Subject of e-mail: "Question on Associate Professor of NAOJ ALMA Project"

10. Notes for application:

- Convert each application documents (from 7.(1) through 7.(6) above) to separate PDF files and attach them to your e-mail for application.

- Make PDF files with appropriate resolution so that they won't be too large (file size: up to 10 MB)
- Do not send your application by mail or bring it by yourself.
- Your application documents will be used only for the purpose of selection for this position.
- Upon receipt of your application, you will receive a confirmation e-mail. If you do not receive any response from NAOJ within 3 working days, please contact;
E-mail: apply-alma-assocprof20190125_AT_nao.ac.jp (replace _AT_ with @)

11. Remarks

- Policy for Equal Employment Opportunity: Abiding by the Equal Employment Opportunity Act for Men and Women, NAOJ is committed to the realization of a society with gender equality. If two candidates are deemed equal in their performance evaluation, NAOJ will take positive action to employ women. For details, see <http://open-info.nao.ac.jp/danjokyodo/>