

Announcement – Project Research Fellow for TMT-J Project Office at NAOJ

TMT-J Project Office at National Astronomical Observatory of Japan (NAOJ) is inviting applications for the position of project research fellow (Specially Appointed Research Employee).

1. Position: Project Research Fellow (Specially Appointed Research Employee based on annual salary system)
2. Number of vacancies: one
3. Assignment:
 - (1) Division: TMT-J Project Office
 - (2) Duty station: NAOJ in Mitaka, Tokyo, Japan, with possible business trips to California, U.S.A.
4. Research Fields and Job Description:

Successful candidate will work on the development or scientific study of IRIS (Infrared Imaging Spectrograph), which is a first generation instrument of TMT (Thirty Meter Telescope). The diffraction limited imaging will be provided by IRIS and the support of adaptive optics system in near infrared. The wavefront error budget of IRIS imager is quite tight around 40nm rms under the cryogenic condition in order to realize the high sensitive observation with the help of the large telescope aperture and the correction of adaptive optics system.

It is important that we have to work on the design, fabrication, assembly, operation plans, observation strategies and science case study of IRIS imager to maximize the astronomical achievement and results. Candidate is requested to understand this importance. We are in the final design phase of about 3 years from October 2017 and followed by the fabrication phase of 2.5 years.

The following tasks are expected to be performed by the research fellow.

- (1) The analysis of high precision astrometry.
- (2) Development of performance analysis and evaluation of optics for IRIS imager.
- (3) Research on the algorithm of data analysis produced by IRIS imager.
- (4) Development of performance evaluation of science detectors for IRIS imager.
- (5) Produce the observation sequences and develop the science case for IRIS.

The candidate is requested to pick up some of these task and to submit a research plan, and is expected to spend up to 50 % of his/her time to the tasks.

5. Term:

(1) The term starts on as soon as reasonably possible.

(2) The term is for three years, subject to annual review. ※

At the end of the contract term, there is the possibility of extending the contract up to two years, based on a review. ※

※If the applicant had been the project research fellow of NAOJ or the Researcher (Part-time Contract Employee) before, then the term may be adjusted so that the total length of employment does not exceed five years.

6. Qualification:

- The applicant must have a PhD degree or equivalent in physics, engineering or related fields.
- Experience on development of astronomical instruments at the wavelength of optical and near infrared is preferable.

7. The application documents (either in Japanese or in English) must include

- (1) a curriculum vitae,
- (2) a summary of research activities in the past,
- (3) a list of publications (Separate refereed and non-refereed papers. For co-authored papers, list all the names of authors.),
- (4) PDF copy of three major publications, and
- (5) an outline of research plans.

In addition, the applicant should arrange one letter of reference, to be sent directly from the person reviewing the applicant. The name of the person should be identified in the application cover letter.

8. Deadline:

The application documents and the reference letter must be received by 17:00 JST (08:00 UT), 1 October, 2018.

9. Submission:

(1) Application documents and reference letters should be sent to:
apply-tmt-prorfellow20181001_AT_ao.ac.jp (replace “_AT_”
with the @-sign.)

with a mail subject of “Application (or Reference) for Project Research Fellow for TMT-J Project Office”.

(2) For inquiries, please contact

Assistant Prof. Ryuji Suzuki, TMT-J Project Office, NAOJ.

e-mail: ryuji.suzuki_AT_nao.ac.jp (replace “_AT_” with the @-sign.)

When the application documents are received, a confirmation mail will be sent to the applicant. If you do not receive the confirmation within three working days, please notify the inquiry address.

10. Remarks:

(1) Project research fellow is a full-time position (38h45min working hours/week) employed under the scheme of the annual salary system of NINS.

(2) The fellow will receive a monthly salary of 350,000 JPY plus compensation for commuting expenses (up to 55,000 JPY per month), and annual research funds of 500,000 JPY. Social insurance will be applied. Bonus and retirement allowances are not provided. The travel and relocation costs to NAOJ will be covered, subject to the travel regulations of NINS (the details have to be arranged with the administration office).

(3) The qualification to apply for Grants-in-Aid for Scientific Research is given.

(4) Application documents will be used only for the purpose of the selection of this position, and those documents of the applicants other than the successful candidate will be discarded.

(5) Selected candidates in the final short list may be interviewed by the selection committee either via internet or face-to-face. The expenses for the interview will not be covered by NAOJ.

(6) 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/>