

Announcement – NAOJ Project Research Fellow 2019

National Astronomical Observatory of Japan (NAOJ) is inviting applications for the position of project research fellow. General terms are described first, followed by job specifications from individual projects.

1. Project research fellow is a full-time position (discretionary work type: standard work hours is 38h45min working hours/week) employed under the scheme of the annual salary system of NINS. For the number of vacancies, see the announcements from individual projects given below.
2. The application may be sent to multiple projects; in such a case the applicant must indicate the order of preference in a document on your outline of research plans. The final recommendation of candidates from the projects to the selection committee will be adjusted so that no candidate is recommended by multiple projects.
3. For the research fields see the specifications below.
4. The fellow is expected to spend up to 50 % of his/her time to jobs requested by the project he/she belongs to. For details, see the specifications below.
5. (1) The term starts at 1 April 2019 or later (if each individual project suggests some specifications, please follow them).
(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. The applicant must have a PhD degree as of 31 March 2019, or is expected to have it by the starting date of your employment. It should be described if the applicant is expected to have a PhD degree by the starting date of your employment.
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. If each individual project suggests some specifications, please follow them.

8. The application documents and the reference letter must be received by 12:00 JST (03:00 UT), 15 November 2018, unless specified otherwise below.
9. The email addresses for the application and inquiries are given under individual projects.
10. 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.
11. 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. If the fellow is a resident outside the State of Hawaii and is taking up the fellow position at the Subaru Telescope (Hilo, Hawaii), or if the fellow is a resident outside the Chile Republic and is taking up the fellow position at the NAOJ Chile Observatory (Santiago, Chile), allowance will be paid. 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). The qualification to apply for Grants-in-Aid for Scientific Research is given. ※If the office location is Hawaii, see the announcement from *Subaru Telescope (Hawaii) given below.
NAOJ is promoting equal opportunities for women in the workplace.
Please refer to the following URL: <http://open-info.nao.ac.jp/danjokyodo/>

Announcements from Individual Projects

(In the email addresses below, replace <AT> with the @-sign.)

* Subaru Telescope (Mitaka)

1. Number of vacancies: two
2. Duty station is NAOJ in Mitaka, Tokyo, Japan, with possible business trips to Subaru Telescope (Hilo, Hawaii, USA)
- 3.4. Subaru telescope solicits applications for its project researchers. Successful candidate will actively advance their own scientific research using Subaru telescope. In addition, the candidate will be involved in the operation and user support of the Subaru telescope. Observatory duties may include the following, 1) A support for the Mitaka remote observation, 2) The HSC-SSP observation, 3) A support for the Subaru users meeting, lecture, and school, and 4) Outreach. The candidate is expected to collaborate with NAOJ researchers. Applicants should submit a

statement of research interests as well as possible contributions to Subaru.

A good command of English language is essential. Fluency in Japanese will be preferable.

9 (1) Application documents and one letter of reference should be sent to:

fellow2018apply_mtk<AT>naoj.org

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

(2) For inquiries, please contact

Prof. Nobunari Kashikawa, Mitaka Subaru office, NAOJ.

e-mail: n.kashikawa<AT>nao.ac.jp

* Subaru Telescope (Hawaii)

Subaru Telescope, NAOJ operates the Subaru telescope for open use observations and is also active in the research and development for its future systems (<http://www.subarutelescope.org/>).

We are seeking a postdoctoral fellow who can actively pursue observational research and/or instrumental development using the Subaru telescope.

1. Number of vacancies: one

2. Office location: 650 North A’ohoku Place, Hilo, HI 96720, U.S.A. Occasional travels to the NAOJ Mitaka campus, Japan are also expected.

3, 4. Successful applicant is expected to actively collaborate with the staff members using not only the Subaru telescope, but also Keck telescopes, Gemini telescopes, and others to enhance scientific activities at the observatory. In addition, he/she is expected to support a part of open use observations at Subaru telescope, including duties at the top of MaunaKea (4200 m in elevation). Applicants should describe not only plans of their own research, but also plans for possible collaborations and supporting roles at the observatory. Inquiry for further details of the duties and responsibilities as well as benefits should be directly sent to the Subaru telescope (see below).

9. (1) Application and reference letter should be sent to:

fellow2018apply_hilo<AT>naoj.org

with a mail subject of “application for project research fellow”.

9 (2) For inquiries, please contact:

Prof. Michitoshi Yoshida, Director

Subaru Telescope, NAOJ

650 North A’ohoku Place, Hilo Hawaii 96720 U.S.A.

Tel: 01-808-934-5900

e-mail: yoshida<AT>naoj.org

11. Successful applicant will be hired through RCUH (Research Corporation of the University

of Hawaii). Expense to move to Hawaii will be covered by the Subaru telescope based on RCUH's guideline. For a resident outside the state of Hawaii, monthly allowance for Hilo, Hawaii will be paid in addition to the base salary of 350,000 JPY. Note that the salary and the monthly allowance will be paid in USD with the fixed exchange rate of 1 USD = 100 JPY.

* Solar Science Observatory

1. Number of vacancies: two

2. Office location: Mitaka, Tokyo

3, 4. Solar Science Observatory conducts the scientific operation of the Hinode on-orbit solar observatory with ISAS and observes the Sun at a ground-based observatory in the Mitaka campus. Successful applicants are expected to actively promote solar physics utilizing the data from these instruments with the other observational facilities such as scientific satellite & balloon payload (IRIS, CLASP, FOXSI, Sunrise) and ground-based observatories (ALMA, large-aperture optical telescopes), or theoretical researches related to those areas noted above. The project research fellows are expected to participate in the scientific operation of the observational facilities associated with this project.

9.(1) Application and reference letter (s) shall be sent to hirohisa.hara@nao.ac.jp

(2) For inquiries, please contact:

Dr. Hirohisa, Hara, Solar Science Observatory, NAOJ
e-mail: hirohisa.hara@nao.ac.jp

* TMT-J Project Office

1. Number of vacancies: one

2. Duty station is NAOJ in Mitaka, Tokyo, including visits to Pasadena, California, USA several times

3.4. Area of Expertise and Job Description

TMT-J Project Office of the National Astronomical Observatory of Japan places an emphasis on the design and production of science instruments including adaptive optics systems and the development of observing plans based on the instruments' performance with an aim to maximize the scientific achievement and results, and is currently seeking a researcher who will be responsible for this role.

Detailed responsibilities are:

(1) To evaluate performance of TMT (Thirty Meter Telescope) and instruments in detail, update and develop an observation planning tool and release it to users

(2) To take part in examination of TMT science case in cooperation with international communities

Additionally, this position is expected either (or both):

- (3) To take part in planning of data analysis software for the TMT first-generation instrument IRIS (Infrared Imaging Spectrograph), and carry out the plan for the development, together with the international team
- (4) To take part in planning of the design and development of second-generation instrumentation and carry out the plan for the development

Either of the roles described above is required to work with candidate's original ideas and communication with universities and international planning teams, as well as to constantly update the plan in line with progress of the instrumentation design. Applications from candidates with future potential who possess flexible thinking to achieve goals will be welcome. The candidate is requested to write ambitions and possible contribution to this position, as well as a research plan, in the application.

9 (1) Application documents and one letter of reference should be sent to:

fellow2018tmt<AT>nao.ac.jp

with a mail subject of "Application (or Reference) for Project Research Fellow".

(2) For inquiries, please contact

Prof. Tomonori Usuda, TMT-J project office, NAOJ.

e-mail: usuda<AT>naoj.org

*Astronomy Data Center

Astronomy Data Center (ADC) of the National Astronomical Observatory of Japan (NAOJ) is operating the open-use computer systems for astronomical data analysis and also providing astronomical database and archive systems for delivering observational data to support astronomical activities in the world. SMOKA(<http://smoka.nao.ac.jp/>) is one of these systems for providing raw data from various optical and infrared ground based observatories like Subaru Telescope, Okayama Astrophysical Observatory's 188cm telescope, Kiso Schmidt Telescope of The University of Tokyo, MITSuME telescopes of Tokyo Institute of Technology, and Kanata Telescope of Hiroshima University, and is contributing very much to scientific research and educational activities.

1. Number of vacancies: one
2. Duty station is Astronomy Data Center, NAOJ in Mitaka, Tokyo
- 3, 4. Successful candidate spends 50 % of the time on his/her own scientific research related to the data stored in ADC and other archive systems. The remaining 50 % of the time should be used on the duties for promoting effective operation of SMOKA system and data quality

assurance and/or calibrations of data stored in SMOKA. The successful candidate is also expected to join to works on improvement and/or optimization of SMOKA system, in the new computer system which starts its operation in March 2018.

9 (1) Application documents and one letter of reference should be sent to:

adc-chief<AT>nao.ac.jp (replace <AT> with @)

With a mail subject of "Application for ADC Project Research Fellow".

(2) For inquiries, please contact

TAKATA, Tadafumi,

Director of Astronomy Data Center ,NAOJ

Osawa 2-21-1, Mitaka, Tokyo 181-8588, Japan

e-mail: tadafumi.takata<AT>nao.ac.jp (replace <AT> with @)

* Chile Observatory (ALMA, ASTE)

(There is a possibility of changing the name of this project.)

ALMA is a partnership of East Asia, Europe, and North America in cooperation with the Republic of Chile. The NAOJ Chile Observatory invites applications for two or more NAOJ Project Research Fellow positions stationed in Tokyo to promote ALMA/ASTE science and to support the operation of the telescopes.

1. Number of vacancies: one or more for ALMA, one for ASTE
2. Duty station is NAOJ in Mitaka, Tokyo, Japan, with possible business trips to Chile, Europe, North America, Taiwan, and/or Korea.
- 3, 4. Successful candidates will work on their own scientific research related to ALMA/ASTE (including the archival data). We welcome research proposals that involve collaborators inside or outside the NAOJ Chile Observatory. In addition, the successful candidates will be involved in the operation and user support of the NAOJ Chile Observatory, who operates ALMA and the ASTE 10 m radio telescope. Observatory duties may include one or more of the following:
 - ALMA - contribution to the ALMA operation (e.g., reduction of interferometric data, user support such as observing script generation or helpdesk, etc), or development (hardware or software).
 - ASTE – contribution to the science operation of ASTE, or development (hardware or software).

In addition, the candidates will be involved in promoting scientific activities such as organization and support of science workshops.

6. A good command of English language is essential. Fluency in Japanese will be preferable,

but not required.

7. Application documents must be prepared in English. The “outline of research plans” must include both the plan of your own scientific research and the plan for contribution to the observatory duties. The applicant must clearly state whether she/he wishes to be involved in the operation and user support of ALMA, ASTE or both (indicate the 1st choice if both). The applicant must arrange TWO letters of reference, to be sent directly from the persons reviewing the applicant.

9 (1) Application documents and letters of reference should be sent to:

alma-postdoc-application<AT> alma.mtk.nao.ac.jp

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

(2) For inquiries, please contact

postdoc.inquiry<AT>alma.mtk.nao.ac.jp