



National Astronomical Research Institute of Thailand (Public Organization)
Announcement
Recruitment of a Contract Employee

Project Description: Development of radio receiver and processing system for radio astronomy and geodesy

This project focuses on creating a system tailored for receiving and processing radio waves, catering to both radio astronomy and radiology applications. Specifically designed for the VGOS radio telescope, the system comprises a comprehensive setup including a wide-band frequency front-end system spanning 2-14 gigahertz and a back-end signal processing system for signal recording and analysis. It encompasses the overall system design for observation, incorporating a frequency base system crucial for processing data collected from networked radio telescopes.

Operational Plan: For the development of the radio signal reception system;

- Conduct a comprehensive survey of the radio wave environment.
- Determine the key characteristics and performance metrics of the radio reception system.
- Design and document the radio signal reception system, consolidating design outcomes.
- Procure necessary materials for the radio signal reception system and initiate parts production.
- Thoroughly test the prepared parts and subsystems.

For the development of the radio signal processing system;

- Define the essential characteristics and performance requirements of the radio signal processing system.
- Design the radio signal processing system, summarizing the design specifications.
- Procure materials essential for radio signal processing systems.
- Conduct subsystem testing to facilitate seamless integration into the overall system.

Given the complexity of the project, it is imperative to hire a qualified engineer, specifically a Computer Engineer, to oversee backend operations. This individual will be primarily responsible for managing data, processing, and analyzing data, and ensuring efficient processing and storage of signal data obtained from the 13-meter radio telescope.

1. Qualifications and responsibilities are as an annex attached

2. Date and time of application and application process

2.1 Applicant can apply **within 15 March 2024(Fri), 16:59 UT** by one of the following channels via;

Website; <https://jobs.narit.or.th/>

Email; personnel@narit.or.th, Koichiro@narit.or.th,

Koichiro.sugiyama@gmail.com

Post; addressed to

Human Resource Management Department (please refer to Job Application)

National Astronomical Research Institute of Thailand (Public Organization)

260 Moo 4, Donkaew, Maerim, Chiangmai, 50180 – Thailand

2.2 Interview (online) : If necessary, in 18-22 March 2024

2.3 Due of selection announcement : 26 March 2024 (Tue)

2.4 Offer starting date : Immediately, negotiable

3. Required document

3.1 Cover letter with the foreseen starting date and the contact

3.2 Curriculum vitae; including skills/experiences as well

3.3 Certificate of Bachelor's or Master's degree

3.4 Copy of ID card or passport

4. Employment period

The contract is valid for one fiscal year and is extendible on a yearly basis.

Announce on : February 21, 2024



Saran Poshyachinda, Ph.D.

NARIT Executive Director

**Annex of National Astronomical Research Institute
of Thailand (Public Organization) Announcement
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Position title: Computer Engineer 1 Position

Affiliation: Division for Radio Observatories Operations and Engineering

Employment period: from start date until 30 September 2024, and will be extendible

Salary: 22,000 – 28,000 Bath/month (potentially to be raised at the beginning of each fiscal year)

Work location: NARIT headquarter, Chiangmai, Thailand

The duties of the proposed position are listed below:

1. Software development on the Linux operating system.
2. Creation of a large-scale data storage network system.
3. Liaison with domestic and international agencies to fulfill duties and responsibilities.
4. Designing and testing digital signal processing and storage systems.
5. Compilation of reports, documents, and presentations relevant to the research project.
6. Execution of additional assigned tasks such as procurement of materials and equipment, and coordination with external stakeholders across various departments.

Skills/Qualifications

The candidates are to have the following qualifications in possession:

1. Possess a bachelor's degree or higher in Computer Engineering or a related field.
2. Age should not exceed 40 years, and both male and female candidates are welcome.
3. No prior work experience is necessary.
4. Possess aptitude in data processing, analysis, and programming.
5. Demonstrate proficiency in listening, speaking, reading, and writing English.
6. Willingness and ability to work in other provinces or abroad.