

DISCUSSANT FOR THE DISCUSSION SESSION

“ The current situation and challenges concerning the development of research environments for advanced research equipment, etc. between Japan and ASEAN countries”

NGUYEN VAN THUONG

MINISTRY OF SCIENCE AND TECHNOLOGY

No. 113 Tran Duy Hung Str., Cau Giay Dist., Hanoi, VIETNAM

Online meeting date 24 February 2023

1. CURRENT STATUS AND CHALLENGES

- Population: around 100 millions
- S&T organization: around 2500 (including Institute, Universities, Colleges...)
- National Key Laboratory: 16 (budget from 2–5 millions USD/lab)
- Number of advanced research equipment: a lot, such as microscope (SEM, TEM, Optical..), Atomic absorption spectrometer, Optical emission spectrometry, cutting machine, Chromatography-mass spectrometry system, Fermentation system...
- The efficiency of using advanced research equipment is not high due to many reason such as:
 - + Lack of human resources (equipment operation, research on equipment..)
 - + Lack of budget for equipment operation (raw materials, consumables, equipment repair and maintenance).
 - + Lack of research projects in cooperation with Japan and ASEAN country. Haven't attracted many foreign scientists to work in laboratories.
 - + Implementation from the laboratory to the market is not good.

2. RECOMMEND SOLUTION

- The government increases operating funding for laboratories through research projects or research orders.
- Adjust operating regulations of laboratories, train and improve human resources for science and technology. Attracting foreign scientists to work and research in laboratories, effectively using advanced research equipment.
- Strengthen cooperation in science and technology with Japan and ASEAN countries. Building bilateral and multilateral research cooperation program, linking with laboratories of Japan and ASEAN countries.
- Encourage the establishment of science and technology enterprises in research institutes and in universities. Strengthening the relationship between research institutes -universities – enterprises.
- Implement exchange programs of scientific researchers between Vietnam – Japan - ASEAN countries.

Thank you very much for your attention!