



LEMBAGA PENELITIAN  
DAN PENGABDIAN  
KEPADA MASYARAKAT  
INSTITUT TEKNOLOGI BANDUNG



102  
TAHUN ITB

Kampus  
Merdeka  
INDONESIA JAYA

# STICHTING BANDOENGSE TECHNISCHE HOOGESCHOOL FONDS (BTHF GRANTS)

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## **STICHTING BANDOENGSE TECHNISCHE HOOGESCHOOL FONDS (BTHF GRANTS 2022)**

### **BACKGROUND**

Stichting Bandoengse Technische Hoogeschool Fonds (BTHF) was established in 1926 at The Hague, The Netherlands after the establishment of Technische Hoogeschool Bandung (now Institut Teknologi Bandung, ITB) in 1920. Starting capital of the BTHF was derived from the donation of the Dutch government at the occasion of transfer authority of the Technische Hoogeschool from Dutch government to the local government.

In line with the research strategic planning of ITB, the collaboration between ITB and Dutch academia provides opportunities to learn complementary disciplines that may be applied to solve existing problems. This may lead to the development of innovative solutions. Table 1 shows the contribution of the two countries, The Dutch and Indonesian academia to the top 1 % worldwide research topic according to the Scival Elsevier database. The Dutch academia shows great achievements within 15 research topics as all FWCI values are shown to be above one (1) whereas Indonesian academia needs to put much effort to elevate the performance. In summary, ITB researchers shall provide contributions to these important worldwide research topics.

**Table 1 Contribution from the Dutch and Indonesian academia as well as ITB academia to the top 1% worldwide research topic. (Scival Elsevier Database up to June 17<sup>th</sup>, 2022)**

No	Topic Cluster	Scival Topic Cluster Number	Publications 2018-2021		Field-Weighted Citation Impact (FWCI)	
			The Netherlands	Indonesia (ITB)	The Netherlands	Indonesia (ITB)
1	COVID-19; SARS-CoV-2; Coronavirus	TC.1500	2321	1560 (29)	8,23	2,71 (2,18)
2	T-Lymphocytes; Neoplasms; Immunotherapy	TC.12	1963	172 (1)	2,79	0,41 (0,69)
3	MicroRNAs; Long Untranslated RNA; Neoplasms	TC.219	743	103 (5)	2,53	0,86 (1,57)
4	Electricity; Energy; Economics	TC.81	2177	934 (41)	2,43	0,88 (0,49)

5	Photocatalysis; Photocatalysts; Solar Cells	TC.8	633	1176 (157)	2,36	0,99 (0,92)
6	Secondary Batteries; Electric Batteries; Lithium Alloys	TC.30	465	748 (122)	2,17	1,31 (1,51)
7	Ligands; Crystal Structure; Organometallics	TC.71	265	171 (34)	2,11	0,91 (1,29)
8	Algorithms; Computer Vision; Models	TC.0	1805	2167 (181)	2,1	0,99 (0,72)
9	Climate Models; Model; Rainfall	TC.5	1710	1144 (102)	1,97	0,93 (0,62)
10	Ozonization; Degradation; Wastewater Treatment	TC.206	370	331 (36)	1,71	1,01 (1,46)
11	Electric Power Transmission Networks; Wind Power; Electric Power Distribution	TC.28	850	1061 (86)	1,63	0,67 (0,64)
12	Plasmons; Metamaterials; Surface Plasmon Resonance	TC.47	388	384 (47)	1,4	0,98 (0,67)
13	Catalysts; Zeolites; Hydrogenation	TC.7	792	696 (99)	1,35	0,82 (0,88)
14	Catalysis; Synthesis (Chemical); Catalysts	TC.4	340	48 (6)	1,33	0,68 (0,75)
15	Graphene; Carbon Nanotubes; Nanotubes	TC.22	656	550 (83)	1,3	0,91 (0,7)

## OBJECTIVES

- To enforce the education and research at ITB.
- To improve scientific cooperation between Indonesia and The Netherlands.
- To improve ties between Indonesia and The Netherlands by stimulating active Dutch Institutes as well as companies in Indonesia.

## RESEARCH TOPIC

In principle, the research topics are not limited and it is open to any category. In addition, the research priority of ITB as mandated by the ITB academic senate can be seen in appendix.

## **RESEARCH GRANT SCHEME**

There are four (4) schemes of BTHF Grants 2022.

### **A. BTHF RESEARCH GRANT SCHEME**

#### Description

- The BTHF Research Grant Scheme is used to support joint research between ITB and Dutch academia.
- The maximum individual grant is Eur 5000 per proposal.
- The grant is used to support research expenditures such as apparatus, laboratory supplies, instrument, device, reagent, travel expense, characterization, etc.
- Funds for such applications are provided by BTHF.

#### Eligibility

- Applicants are faculty members from ITB who have or seek a partnership with Dutch researchers.
- Each applicant is limited to one project for application per year.

#### Assessment and Selection Committee

- Assessment and selection committee consists of ITB Board of Reviewers and BTHF Management Board.

#### Output

- At least one paper is resulted in this joint research and it must be published within 1 year after the project is completed in a reputable journal with minimum category of Q2 based on SJR (Scimago Journal and Rank).
- Personnel from both ITB and Dutch academia as well as Dutch knowledge institutes must be listed as authors of the aforementioned papers or listed at acknowledgements of the paper in accordance to the authorship.
- The selection of journals should be agreed by both ITB and Dutch academia.

#### Application

- The research proposal must be written in English.
- The online application form and research proposal must be filed no later than 5 pm (Western Indonesian Time) by July 15<sup>th</sup>, 2022 on LPPM-ITB system (<http://english.lppm.itb.ac.id>).
- The application decision will be announced by August 10<sup>th</sup>, 2022.
- The kick-off grant ceremony will be organized in August 15<sup>th</sup>, 2022 and the detailed information will be announced later.
- The research activity will end in June 15<sup>th</sup>, 2023.

- The progress report of research results must be submitted before January 16<sup>th</sup>, 2023 on LPPM-ITB system (<http://english.lppm.itb.ac.id>).
- The final report of research results must be submitted before June 23<sup>rd</sup>, 2023 on LPPM-ITB system (<http://english.lppm.itb.ac.id>).
- The final grant ceremony will be organized in July 2023 and the detailed information will be announced later.

## **B. BTHF STAFF EXCHANGE SCHEME**

### Description

- The BTHF Staff Exchange Scheme is used to support visit of ITB academia to the Dutch institutions to jointly carry out research.
- The maximum individual grant is Eur 5000 per proposal.
- The grant is used to purchase return air tickets from Indonesia to The Netherlands and to pay accommodation expenses in The Netherlands.
- The minimum duration of stay in The Netherlands is two to three months.
- The departure shall be scheduled by April 1<sup>st</sup>, 2023 at the latest.
- Funds for such applications are provided by BTHF.

### Eligibility

- Applicants are faculty members from ITB who have or seek a partnership with Dutch researchers.
- Each applicant is limited to one project for application per year.

### Assessment and Selection Committee

- Assessment and selection committee consists of ITB Board of Reviewers and BTHF Management Board.

### Output

- At least one paper is resulted from the visit and the joint publication must be published within 1 year after the project is completed in a reputable journal with minimum category of Q2 based on SJR (Scimago Journal and Rank).
- Personnel from both ITB and Dutch academia as well as Dutch knowledge institutes must be listed as authors of the aforementioned papers or listed at acknowledgements of the paper in accordance to the authorship.
- The selection of journals should be agreed by both ITB and Dutch academia.

### Application

- The research proposal must be written in English.
- The online application form and research proposal must be filed no later than 5 pm (Western Indonesian Time) by July 15<sup>th</sup>, 2022 on LPPM-ITB system (<http://english.lppm.itb.ac.id>).

- The application decision will be announced by August 10<sup>th</sup>, 2022.
- The kick-off grant ceremony will be organized in August 15<sup>th</sup>, 2022 and the detailed information will be announced later.
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- The final report of research results must be submitted before June 23<sup>rd</sup>, 2023 on LPPM-ITB system (<http://english.lppm.itb.ac.id>).
- The final grant ceremony will be organized in July 2023 and the detailed information will be announced later.

### **C. BTHF CONFERENCE AND TRAINING GRANT SCHEME**

#### Description

- The BTHF Conference and Training Grant Scheme is used to support ITB academia to participate at the international event organized and/or linked with Dutch academia.
- The maximum individual grant is Eur 5000 per proposal.
- The grant is used to purchase return tickets and to pay accommodation expenses.
- The departure shall be scheduled by April 1<sup>st</sup>, 2023 at the latest.
- Funds for such applications are provided by BTHF.

#### Eligibility

- Applicants are faculty members from ITB.
- Each applicant is limited to one project for application per year.

#### Assessment and Selection Committee

- Assessment and selection committee consists of ITB Board of Reviewers and BTHF Management Board.

#### Output

- Oral presentation from the published paper at international event or participation of training program.

#### Application

- The BTHF Conference and Training Grant Scheme is continuously open.
- The proposal must be written in English.
- The online application form and research proposal must be filed on LPPM-ITB online application system (<http://english.lppm.itb.ac.id>).
- The final report of activity should be delivered one month after the event on LPPM-ITB system (<http://english.lppm.itb.ac.id>).

## **D. BTHF VISITING PROFESSOR GRANT SCHEME**

### Description

- The BTHF Visiting Professor Grant Scheme is used to invite Dutch professors to visit ITB campuses.
- The visit of Dutch Professors to ITB aims to give knowledge sharing with respect to education, research, innovation as well as community services.
- The maximum individual grant is Eur 5000 per proposal.
- The grant is used to purchase return air tickets and to pay accommodation.
- The minimum duration of stay is one week and the maximum duration of stay is three months.
- Linking this scheme with program of ITB or Indonesian Ministry would be much appreciated.
- Funds for such applications are provided by BTHF.

### Eligibility

- Applicants are faculty members from ITB who have or seek a partnership with Dutch researchers.
- Each applicant is limited to one project for application per year.
- The invited Professor can be Dutch academia, professional expert, consultant or government official.

### Assessment and Selection Committee

- Assessment and selection committee consists of ITB Board of Reviewers and BTHF Management Board.

### Output

- At least one seminar is organized for the Dutch Professor to deliver a keynote speech in Indonesia.

### Application

- The BTHF Visiting Professor Scheme is continuously open.
- The proposal must be written in English.
- The online application form and research proposal must be filed on LPPM-ITB online application system (<http://english.lppm.itb.ac.id>).
- The final report of activity should be delivered one month after the event on LPPM-ITB system (<http://english.lppm.itb.ac.id>).

## APPENDIX

The ITB Research Priority as mandated by the Academic Senate of ITB in 2020 is presented in Figure 1.

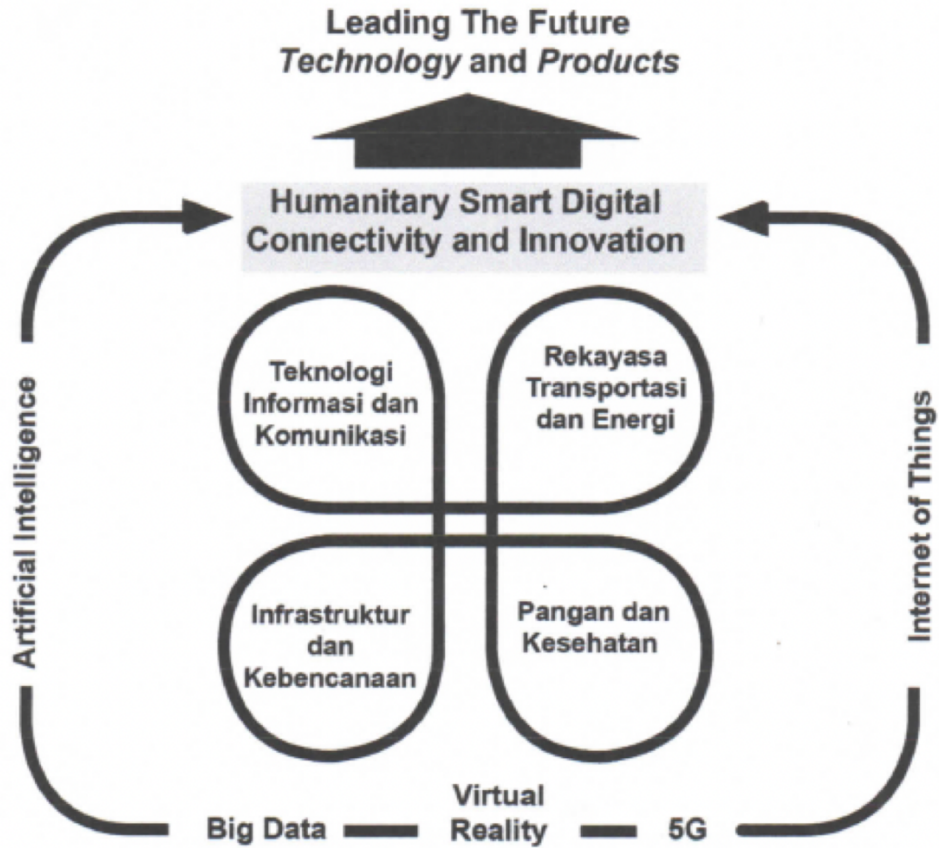


Figure 1. Schematic image of Research Priority of ITB issued in 2020.



