

Call for Trainees for the Fifth International Training Course on Industrial Synthetic Biotechnology

Hosted by Tianjin Institute of Industrial Biotechnology, Chinese Academy of Science (TIBCAS)

Background

Synthetic biology is widely regarded as a forward-looking and disruptive technology. The industrial application of synthetic biology is expected to provide new solutions to the major challenges on resources, health and environment faced by human beings.

Tianjin Institute of Industrial Biotechnology, Chinese Academy of Science (TIBCAS) is a leading institute in the field of synthetic biology and green bio-manufacturing, well equipped with state-of-the-art facilities, committed to promoting eco-friendly development in industrial sectors by innovative biotechnology. The COMSATS Joint Center for Industrial Biotechnology (CCIB), co-built by TIB and COMSATS in April 2021, is targeted to build an open, shared, and innovative cooperation platform, integrating the functionalities of joint research and development, academic exchange, talent training, technology transfer, strategic consulting and etc., so as to promote the development of biotechnology and bioindustry in the COMSATS member states and the Belt and Road Initiative (BRI) partner countries.

Since 2019, TIB has successfully hosted four editions of International Training Course on Industrial Synthetic Biotechnology (ITC-ISB) and there were over 170 researchers and young scholars from 28 countries being trained. To inspire more young scientists from BRI partner countries and developing countries to pursue their careers in synthetic biology and to strengthen global cooperation in addressing shared challenges through synthetic biology

innovation, with the support of related training programs from Chinese Academy of Science, TIB will host the fifth ITC-ISB this year.

General Information

- Number of trainees: ~20
- Duration: no less than 14 consecutive days, tentatively ranging between July 9 and July 23, 2025
- Hosted by: TIBCAS
- Organized by: COMSATS Joint Center for Industrial Biotechnology (CCIB)
- Main Venue: TIB
- Language: English

Contents

The training course will focus on the theory, practice and application of the Industrial Synthetic Biotechnology. The main contents include:

- Technical courses: basic theory, methodology, technological progresses and applications of synthetic biotechnology in various fields such as health products, materials, chemicals, fuels, food and feed additives
- Experimental courses: series of well-designed experiments in synthetic biology to strengthen the technical skills
- Site visit: the core facilities of TIB, leading biotech companies carefully selected

Financial Support

- Round-trip ticket (economy class)
- Local hospitality, including accommodation, meals and relevant local transportation
- Inclusive training fee

Eligibility Criteria

- Enrollment regions: Researchers from the BRI partner countries and beyond, especially those from COMSATS member countries and ANSO members
- Age limit: not more than 45 years old in principal
- Education background: Self-motivated young researchers/engineers having Ph.D. degree with more than 2 years of working experience in the field of biotechnology, particularly industrial biotechnology, microbiology, molecular biology, synthetic biology, bioinformatics, metabolic engineering, bio-catalytic engineering, fermentation engineering, bioprocess engineering, etc.
- Language requirements: good communication skill in English

Application Documents

- A cover letter, stating the reasons for applying for the training, cooperation plans with certain professor of TIB or request for potential collaborator through this training course, etc
- Recommendation letters from the Principal Investigator and the head of International Cooperation Department of the candidates' organizations
- Application Form (attached)
- C.V. in which selected publications must be mentioned
- Brief introduction (template attached)
- Recent 2-inch full-faced and bareheaded electronic photo (preferably 3.5 x 4.5 cm)
- E-copy of the passport and previous Chinese visa if available
- Clean bill of health issued by the local hospital or clinic

Key Date

Deadline for Application: April 10th 2025. The application documents should be submitted to the

e-mail address: CCIB@tib.cas.cn.

Notice of Acceptance: April 25th 2025 by email

Contact Information

Ms. Qianqian Ge, CCIB Secretary

Ms. Qianqian Chai, CCIB Coordinator & TIB International Cooperation Officer

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For more details, please refer to the previous ITC-ISB:

http://english.tib.cas.cn/newsroom/newsupdates/202412/t20241201_892808.html

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Attachment

1. Application Form
2. Personnel Introduction-template