

International Higher Education and Global Science—

A Perspective from Engineering Education in China

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"Belt and Road" Initiative





Guangming Daily

"大量的基础设施建设,需要宏大的不同领域的工程技 术、项目设计与管理等专业人才。……这些项目的建设 完成,需要数以十万乃至百万计的铁路、管道、电力、 公路、港口与通信等产业的工程建设、设计施工、质量 控制与保障、经济管理人才"

Former Chairman of the Association of Chinese Higher Education, Qu Zhenyuan, envisioned a great need for many engineering talents in infrastructure constructions for the OBOR initiative (2015)



Strong Policy Supports



"Emerging Engineering Education" Plan



Proactive Internationalization





Active Engineering Education Innovations





Growing Number of International Students in China



The growth can be attributed to political, economical, educational and many other factors



Joint Degrees and Other English Programs in Engineering in China













CHINESISCH-DEUTSCHE HOCHSCHULE FÜR ANGEWANDTE WISSENSCHAFTEN





Institut franco-chinois d'ingénierie et de management



International Engineering Students'

Learning Outcomes

- Knowledge: Engineering knowledge; Cultural knowledge; Academic environment; Employment …
- Skills: Interpersonal skills; Software skills; Research skills (generic); Teamwork skills; Self-study skills; Hands-on skills; Time-management skills; Language skills; Reading papers; Presentation skills; Leadership skills; Design skills; Navigation skills; Working under pressure; Living independently ...
- Attitudes: Hard-working; Perception of Chinese people: e.g. Friendly; Empathy; Perception of Chinese infrastructure and economic development-great progress.; Becoming more persistent; Becoming more confident; Openness to new ideas; Openness to other culture; Becoming more patient; Becoming more interested in research...



International Engineering Students' Perceptions

about Studying in China

Advantages

Challenges/ Disadvantages

- Reputation obtained through major rankings
- Scholarship opportunities
- Low living cost
- Sufficient research funding
- Access to research equipment
- Conveniences of living in China(transportation, ecommerce, etc.)
- Economic environment(Job opportunities)
- More freedom

- Lack of communication with local Chinese students
- Hope to (but unable to due to limit in language abilities) attend courses offered in Chinese programs
- Not many free intermediate-level Chinese courses (only basic Chinese courses are offered)
- Many internship or employment information/websites were only available in Chinese



Future Directions

University level:

- The impact of the pandemic on the incoming international students in engineering disciplines
- Impact on the quality improvement of Chinese engineering education with the PETEO & EEE policies and after China's joining the Washington Accord

Student level:

Impact of Chinese engineering education innovations on engineering graduates' learning outcomes

Thank you!





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