

# Research on Internationalization of Postgraduate Education in Energy Characteristic Universities under the Background of "The Belt And Road Initiative"

Jianbo Chen

School of New Energy and Materials, Southwest Petroleum University, Chengdu, Sichuan, 610500, China

## Abstract

The "one belt, one road" Cooperation Initiative is an international strategy put forward by President Xi Jinping in the overall situation and profoundly understanding of the international development. It aims at strengthening international cooperation, taking peace and development as the core theme, establishing regional cooperation platform and promoting the common development of many parties. Based on the new international situation and era background of the "the belt and road initiative" initiative, this paper comprehensively analyzes the background and significance of the internationalization of postgraduate education, and further explores the ways to realize the internationalization of postgraduate education in combination with the problems faced by universities with energy characteristics, so as to form an international training system and mechanism of postgraduate education which is suitable for the energy characteristics and the goal of "double first-class" construction.

## Keywords

The belt and road initiative, Graduate education, Internationalization, Energy characteristics.

## 1. Research Background and Significance

"The belt and road initiative" strategy is a major development strategy put forward by President Xi Jinping in the overall situation and in the development of the world today. It is an international cooperation initiative to promote peace and win-win development of the countries along the border. It also provides a "China plan" [1] with Chinese characteristics for China's current economic development. In the strategic cooperation agreement of "the belt and road initiative", talent training is an important part. The Ministry of Education issued the "promoting the joint construction of the belt and road initiative" education action, which clearly pointed out that we should strengthen the education cooperation with countries along the belt and road, build an international education platform, and provide talent guarantee for the joint construction of "the belt and road initiative" [2].

Energy is one of the important fields of the belt and road initiative. Since the "the belt and road initiative" was put forward, the oil import and export volume between China and countries along the "the belt and road initiative" has continuously reached a record high. Nearly 65% of China's oil imports come from countries along the belt and road initiative, and about 70% of China's refined oil products are exported to countries along the belt and road initiative. It can be seen that the countries along the belt and road initiative have become the main targets of China's oil import and export. Energy cooperation between China and countries along the belt and road initiative is promising. As an energy university featuring oil and natural gas, our school has frequent exchanges with countries along the belt and road initiative, especially establishing close cooperative relations around oil and natural gas.

The task of "the belt and road initiative" puts forward higher requirements for the cultivation of high-level international talents, and also provides an opportunity for the internationalization of postgraduate education [3]. Today, with more and more emphasis on strengthening education and cultivating talents, it is of great significance to continuously improve the internationalization level of postgraduate education and cultivate internationalized high-level talents in the new era for improving the quality of postgraduate training, accelerating the pace of "double first-class" construction and realizing the strategic goal of an innovative country.

## **2. Internationalization Measures of Graduate Education under the Background of "The Belt And Road Initiative"**

The internationalization of postgraduate education is the inevitable result of globalization. Under the background of "the belt and road initiative", it is required to strengthen the international education of graduate students and enhance their international level, so as to further cultivate innovative talents, enhance China's educational strength and lay a solid foundation for strengthening the country by education and rejuvenating the country with talents. It is necessary to strengthen international education in all aspects, such as teaching staff, postgraduate training programs, postgraduate students, management mode, scientific research and academic exchanges.

### **2.1. Introducing from Outside and Exporting from Inside, Internationalization of Teaching Staff**

Facing the background of globalization and the rapid development of science and technology, teachers should keep pace with the times and pay attention to international frontier fields. Postgraduate tutors in universities with energy characteristics should pay more attention to international trends, and conduct corresponding research and study based on the background of "the belt and road initiative" policy, so as to enhance the internationalization level of their own teaching.

The internationalization level of teaching staff is an important reference standard for evaluating the internationalization quality of graduate education, and the internationalization of teaching staff is the basic guarantee for the internationalization of graduate education [4]. For the construction of teaching staff, we should adopt the mode of "introducing from outside and introducing from inside". That is, on the one hand, we should actively introduce international talents, increase policy inclination, attract outstanding foreign teachers, and give priority to hiring experts and scholars with overseas study experience, especially outstanding teachers from countries along the belt and road initiative. On the other hand, to strengthen the international training of university teachers, special programs can be used to support on-the-job teachers to visit or exchange academic activities in countries along the belt and road initiative, with emphasis on countries with close energy cooperation in China. Through exchanges, mutual learning and multi-party joint training, local teachers' bilingual teaching ability will be enhanced, their international horizons will be broadened, and the international level of teaching will be enhanced. In order to strengthen the international training of graduate education, we should improve the international level of graduate tutor team through the construction of "external introduction and internal export" teaching staff.

### **2.2. Combining with the Reality, the Management System Is Internationalized**

We should formulate a sound policy system for the internationalization of graduate education in universities with energy characteristics, so as to provide an important guarantee for the implementation of the internationalization strategy of discipline graduate education in universities with energy characteristics [5]. At present, the internationalization process of graduate education in China is relatively slow. In order to speed up the pace of

internationalization of graduate education and improve the quality of international education, it is necessary to establish and improve the corresponding management system. China should introduce relevant policies to encourage universities to strengthen the internationalization of postgraduate education, and take it as one of the assessment indicators, so as to enhance the attention of universities.

Secondly, colleges and universities should fully define the international work functions and service objects, establish an international management office for postgraduate education, and assign special personnel to take charge of related work. On the basis of fully understanding the basic national conditions, economic conditions, customs and habits of countries along the belt and road initiative, we should formulate a management system that is in line with the international community, firmly grasp the opportunity of the belt and road initiative, strengthen the attraction of international students and the management of foreign teachers, and further enhance the school management level, thus laying a solid foundation for the internationalization of postgraduate education.

### **2.3. Adapt to International Requirements and Internationalize Training Programs**

Postgraduate study is an important stage for students to improve their own scientific research practice and comprehensive ability. Therefore, it is necessary to establish a core curriculum system in which both Chinese and English are taught at the same time, and establish an international training program for master's and doctoral students. This is conducive to the internationalization of graduate education and the cultivation of the comprehensive quality of graduate students. Colleges and universities should grasp the foundation of bilingual teaching, and develop small language learning in countries along the belt and road initiative. They should not only master translation skills and professional terms, but also fully understand the social background of these countries, compare cultural differences, fully understand and understand their social needs, and cultivate talents in the new era to meet the needs of internationalization. In addition, it is necessary to establish an international postgraduate training program. We should encourage Sino foreign cooperation in running schools, and closely cooperate with universities in countries along the belt and road initiative, especially those with energy characteristics, to jointly train graduate students, and to establish graduate training programs that are in line with international standards and meet the needs of the international community. Taking bilingual teaching as the basis of the training program, the graduate students' horizons are broadened by means of joint training and academic exchanges, so that the graduate students can extensively dabble in international knowledge, understand the reality of countries around the world under the background of globalization, and fully understand the needs of international talents. At the same time, universities should provide platforms and resources conducive to international training, help graduate students broaden their horizons, and improve their comprehensive ability and international education level.

### **2.4. Strengthen Exchanges and Mutual Learning, and Internationalize Scientific Research and Academic Exchanges**

Under the background of globalization, the communication between countries becomes more and more important. Colleges and universities should fully grasp the cooperation opportunities brought by "the belt and road initiative", actively carry out scientific research and academic exchanges, connect with international standards, adapt to the development of globalization and make progress with each other.

Colleges and universities should fully integrate their own resources, build an international communication platform for teachers and students, and strengthen cooperation and exchanges with famous scientific research units in countries along the belt and road initiative. The two

sides jointly declare scientific research projects, take scientific research projects as carriers, cultivate the scientific research ability of international students, improve the international scientific research cooperation ability of domestic graduate students, and support graduate students to participate in international conferences, especially energy-based conferences, for academic exchanges, so as to broaden students' horizons and improve the level of international exchanges.

## 2.5. Internationalization of Graduate Students

It is an important measure to promote the internationalization of postgraduate education to recruit international students to study in China along the belt and road initiative and exchange and study with local students in national universities along the belt and road initiative. Colleges and universities can strengthen enrollment and publicity in countries along the belt and road initiative, set up special scholarships, provide an international teaching environment, pay attention to the life and psychological conditions of international students, and fully introduce their own teaching advantages. Universities with energy characteristics should give full play to the advantages of energy characteristics, strengthen the enrollment of countries along the route, especially those with rich energy reserves and close cooperation with China's energy, and attract local students to study abroad. At the same time, universities should strengthen exchanges and cooperation with scientific research institutions and universities in countries along the route, so as to provide more opportunities for local graduate students to study abroad, make graduate students more internationalized, and make graduate education more internationalized.

## 3. Conclusions

"The belt and road initiative" strategy provides a "China plan" with Chinese characteristics for the problems facing the current world economic development, and also puts forward higher requirements for international talent training. This is not only a challenge for graduate education, but also an opportunity for graduate education reform in the new era. Postgraduate study is an important stage for students to improve their scientific research practice and comprehensive ability. The internationalization of graduate education is related to the national education power and the quality of talent training, and is closely related to the comprehensive strength of the country.

Therefore, it is particularly important to strengthen the internationalization of graduate education, improve the comprehensive ability of graduate students, and cultivate innovative talents in the new era to meet the needs of the international community. Based on the background of "the belt and road initiative", this paper analyzes the background and significance of the internationalization of graduate education, and puts forward a series of measures, such as teaching staff, management system, postgraduate training program, scientific research and academic exchange, and internationalization of graduate students, in order to further improve the internationalization level of graduate education.

## Acknowledgments

Department of this paper: 1. Southwest Petroleum University's 2020 graduate education reform and teaching research project support (project number: JY20ZD03);

2. Special support for "Engineering Education Professional Certification" from School of New Energy and Materials, Southwest Petroleum University (ProjectNo.: 2020XCZ-ZYRZ-016)

## References

- [1] Chang Kai, Zhao Yanli. Thoughts on the internationalization of graduate education under the background of "the belt and road initiative" [J]. Journal of Fuzhou University (Philosophy and Social Sciences Edition), 2017, 31(06): 102-105.
- [2] Liu Yining, Niu Huapeng. The exploration and practice of the overseas joint training base for the master of engineering serving "the belt and road initiative" and the national energy strategy——Taking China University of Petroleum (Beijing) as an example [J]. World Education Information, 2018, 31(17): 58-61.
- [3] Dong Yuan, Liu Lixia, Zhang Wei, Zhao Kejin. Serving the construction of "the belt and road initiative" and improving the level of postgraduate international training [J]. Degrees and Postgraduate Education, 2017(07): 1-6.
- [4] Hou Shucheng, Dong Chunyou, Han Dawei. On the system and mode of graduate education management [J]. Heilongjiang Higher Education Research, 2013, 31(08): 33-35.
- [5] Ba Suying, Zhou Keyin. Strategic Thinking on the Development of Postgraduate Education in my country under the Background of Internationalization [J]. Value Engineering, 2015, 34(07): 136-137.