Probe into the Training Path of Local College IT Talents Based on International Perspective

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Abstract. It is an inevitable requirement for economic and industrial development to train IT professionals with international perspective in the era of big data. At present, there are still many shortcomings in the international talent training of local universities in China. For example, the existing training methods cannot meet the needs of international IT professionals, the lack of teachers with international vision, and the single form of talent exchange. International IT professionals need to have international cooperation, cross-border thinking, diversified knowledge structure, and innovative practice capabilities. By strengthening teacher construction, reforming teaching models, enriching exchanges and cooperation, and creating an international campus atmosphere, we will explore and cultivate innovative IT talents in local universities with international perspectives.

Introduction

A country's vision can determine its position in the international landscape; The vision of a university can determine the breadth and depth of his teaching. The Outline of the National Medium-and Long-Term Education Reform and Development Plan(2010-2020) clearly states that China's education should be internationalized to meet the requirements of the country's economic and social opening up. Develop a large pool of international talent with an international perspective, a knowledge of international rules and the ability to participate in international affairs and international competition[1]. Providing international education for students and training international talents for universities is not a choice for students or for universities. It is a necessity and a pursuit.

The Objective of Training IT Professionals in Local Colleges and Universities Based on International Perspective

Cultivating IT professionals based on an international perspective requires a clear goal for talent training. Goal 1: At the knowledge level, we must be able to master the cutting-edge knowledge, practical technology, and comprehensive knowledge of other fields; Goal 2: At the level of competence, at least one of the world's most common languages is proficient and can be used, with self-learning, international communication and cross-cultural communication skills; Goal 3: At the ideological level, it is possible to think about issues and have a sense of globalization from the perspective of global resource allocation.

The Lack of International Colleges and Universities IT Talent Training Mode Based on International Perspective

1. The orientation of talent training is vague, and the concept of international education is insufficient;
2. Inadequate introduction of foreign teachers, lack of training of domestic teachers;
3. The curriculum system has low connection with foreign universities, and the international teaching mode needs to be improved;

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4. There are few forms of international exchange, and international academic activities need to be strengthened.

The Cultivation of IT Talents Based on International Perspective

The IT talents of local universities cultivated based on international perspectives should have the following abilities: firm political stance, emphasis on international cooperation awareness, competition awareness, and legal awareness; Based on professional development, with certain cross-border integration capabilities; accumulation of cultural heritage, cross-border, cross-cultural communication skills; exercise new thinking, with practical ability and innovative ability.

Strengthen Teacher Training and Build a Team of Teachers with an International Perspective

Based on the international perspective, the education model has put forward higher requirements for teachers' own capabilities and business standards, and it is not limited to the mandatory requirements of the number of personnel, professional title structure, gender, and age. More attention is paid to the teachers' professional level, teaching level and moral cultivation and other comprehensive qualities[2]. In view of the actual situation of the teaching staff in local colleges and universities, on the one hand, we must do our best to hire overseas professional teachers to carry out teaching work; On the other hand, it is necessary to strengthen the cultivation of the internationalization of local teachers, and enhance the internationalization consciousness and ability of teachers by sending outstanding professional teachers to famous foreign universities or excellent enterprises for further training. In addition, we must actively expand channels and formulate regular measures to form a systematic and continuous learning system for professional teachers' foreign language level and language teachers' professional level, through two-way training. That is, it has strengthened the ability of professional teachers to listen to, speak, read and write foreign languages, and also helped language teachers to learn skills. This can greatly ease the shortage of bilingual teachers in local universities in the short term.

Strengthening Infrastructure Construction and Promoting the Cultivation of Practical Innovation Capacities

The construction fund of local colleges and universities is tight, and the infrastructure construction is relatively weak. The training of IT professionals is inseparable from numerous laboratories and practice bases. Strengthening infrastructure construction, perfecting the teaching basic laboratory group, scientific research laboratory group, innovation and entrepreneurship laboratory group, and school-enterprise cooperation base are the basic conditions for the training of IT professionals in the international vision. Numerous courses completed in the laboratory are conducive to strengthening the technical innovation education of IT professionals, able to train students to break conventional thinking and solve problems creatively; to encourage qualified universities to cooperate with domestic and foreign enterprises and research institutes to build a batch of engineering innovation training center can strengthen students' practical training, enhance their innovation ability, and lay the foundation for accumulating international social practice experience[3].

Improve the Curriculum System and Build a Curriculum Structure That Is in Line with International Standards

Colleges and universities should adhere to the principle of combining science and humanities, professional education and general education in the training of talents, improve the curriculum system for the training of international talents, and set up interdisciplinary and cross-cultural comprehensive courses to deepen students' understanding of the new international situation. On the basis of ensuring the original perfect system, professional backbone curriculum structure should be connected with international colleges and universities, study the international college curriculum system, and build a new knowledge structure and curriculum system according to the principle of "excellent for me"[4]; In addition, local colleges and universities should strengthen the construction of English platform courses and bilingual teaching courses, and launch a series of English elective
courses with distinctive IT specialties to create conditions for the training of professionals with an international perspective. In addition, we should actively expand and cultivate international IT professionals in small languages to support the demand for professionals in the National "Belt and Road" strategy.

Reform the Teaching Model and Promote the Construction of Bilingual Textbooks That Highlight Practicality

To promote the reform of teaching model and the construction of teaching materials, we must consider the background of the current international industry development, and we must also establish the specific training goals of students in school. We must follow the law of gradual progress. The teaching method is also gradually advancing, starting with the introduction of bilingual teaching in a small number of simple courses, and gradually extending to complex and cutting-edge courses for all-British teaching, so that students can slowly adapt to the all-British teaching model. Can also gradually understand and master the international way of thinking. At the same time, with the continuous deepening of the reform of the teaching model, in the construction of teaching materials, the teaching resources are integrated and a number of high-quality courses are created. Teachers are encouraged to select, organize and re-compile teaching materials on the basis of the ability and development characteristics of the student group under the premise of meeting the requirements of the syllabus, so that they both have a local sense of practicality and are in line with international teaching materials[5].

Figure 1. IT Professional International Vision Talent Training Approach.
Build a Communication Platform and Expand International Exchange Programs

The most direct and effective way to cultivate students' international perspective is to involve students in international exchange and cooperation projects, not only to help students accumulate international experience, but also to deepen their understanding of different countries and regions. Local colleges and universities should strive to build an international cooperation and exchange platform, cooperate with international enterprises, provide students with valuable opportunities for international practice, conduct international inter-school cooperation, integrate foreign educational resources, build an international exchange platform for teachers and students, and develop diversified and multi-level exchange programs to improve the quality of personnel training. The basic situation of several cooperation projects in the university where the author is located is shown in Table 1.

Create a Campus International Atmosphere and Encourage Students to Participate in International Competitions

In order to better train IT professionals based on the international perspective, the school also needs to create a strong international atmosphere. On the one hand, colleges and universities should introduce overseas experts through various channels, hire overseas visiting professors to come to the school to carry out lectures, reports, short-term lectures, and salons, so that all students have more opportunities to interact with overseas academic masters to enhance students' intercultural communication skills and international thinking. In addition, students are encouraged to participate in international competitions in various disciplines, such as the American College Students Mathematical Modeling Competition and the American ACM International College Student Programming Competition, to expand the participation of students in the competition, exercise thinking and hands-on ability. Colleges and universities should give students financial support in terms of policies and funds, reduce the economic pressure of students' families, and enable more students to have the opportunity to accept the influence of international thinking.

Table 1. List of International Exchange and Cooperation Projects.

<table>
<thead>
<tr>
<th>Project name</th>
<th>Suitable for students</th>
<th>Basic situation of the project</th>
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<tbody>
<tr>
<td>2+2 undergraduate double degree training program</td>
<td>Sophomore student</td>
<td>2 years in the school, 2 years from a foreign university, graduated with a double bachelor's degree from both sides</td>
</tr>
<tr>
<td>3.5+2 Master Training Program</td>
<td>senior student</td>
<td>3.5 years of the school, half a year of foreign university language study, 2 years of foreign university master's degree, graduated from the school's bachelor's degree, foreign university master's degree</td>
</tr>
<tr>
<td>Short-term exchange student project</td>
<td>Sophomore or above students</td>
<td>6 months studying at a foreign university, credits can be exchanged</td>
</tr>
<tr>
<td>Youth Leadership Program</td>
<td>All students</td>
<td>3 to 5 weeks studying at a foreign university</td>
</tr>
</tbody>
</table>

Summary

With the advent of the big data era, training IT professionals with an international perspective is the demand of the times and the need of the development of the motherland. In this paper, the author puts forward the path of IT talents training in local universities based on the international perspective, hoping to promote the transformation of talents training concepts in local universities, the reform of the curriculum system, the innovation of curriculum teaching methods, and the improvement of the quality of teachers. Thus effectively improve the training quality of IT professionals in local universities and contribute to local economic construction.
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