

# Problems and Countermeasures of Production-University-Research Cooperation in Local Universities under the Background of Yangtze River Delta Integration

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**Abstract:** Regional economic integration has become the main trend of our economic development, and under this trend has formed a more competitive metropolitan area, such as Beijing-Tianjin-Hebei, Yangtze River Delta, Pearl River Delta, Chengyu and so on. In the context of regional economic integration, for the consideration of regional economic development, regional colleges and universities should also carry out in-depth cooperation, and emphasize production-university-research cooperation based on regional economic development. In this way, the actual value performance of local colleges and universities in serving regional economy will be more prominent. The Yangtze River Delta is a typical region with developed economy, where there are many colleges and universities, and there are many famous universities. Therefore, accelerating the production-university-research cooperation of colleges and universities in this region has significant significance and influence on the regional development. Therefore, based on the integration background of the Yangtze River Delta, this paper analyzes the problems of the production-university-research cooperation of colleges and universities in this region, and discusses the countermeasures to solve the problems, aiming at providing reference for practice.

**Keywords:** Yangtze River Delta; Local undergraduate universities; Industry-university-research cooperation; A problem; Countermeasure

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## 1. Introduction

From the current local economic development, the support effect of colleges and universities for regional economic development is remarkable, so it is necessary to emphasize the construction of colleges and universities in the process of regional economic development. Combined with the current work practice of colleges and universities, we can know that the level difference of local colleges and universities is relatively large, and the discipline difference of various colleges and universities is relatively obvious. In this case, to give full play to the role of colleges and universities in the local economy, the most effective means is the cooperation of

colleges and universities. Through cooperation, we can give full play to our strengths, so as to jointly obtain excellent research results, and realize the transformation of research results together with local enterprises. In this way, the effect of local industrial upgrading, technological progress and economic development will be more prominent. There are many famous universities in the Yangtze River Delta region, and there is competition and close cooperation among them. However, according to the current investigation and research results, there are significant problems in the industry-university-research cooperation among local undergraduate universities. On the basis of clarifying the problem, it is of great significance for the progress of university work.

## **2. Problems existing in production-university-research cooperation among local universities**

This paper analyzes the cooperative work of production, university and research in local universities and elaborates two of these problems.

The first is that in the industry-university-research cooperation, the importance of the parties involved is not high. There are many universities and colleges in the Yangtze River Delta, such as Fudan University, Shanghai Jiao Tong University, Zhejiang University, Nanjing University and Southeast University, as well as Soochow University, Nantong University and Yangzhou University with certain local reputation. In the cooperation between production, university and research of these universities, the loyalty of the participants is obviously different, which can be shown in the following aspects: Universities pay little attention to specific work in production-university-research cooperation. As far as survey and research is concerned, universities attach more importance to scientific research itself, so they do not pay enough attention to the transformation of scientific research results, which leads to the “proportion” problem of industry-university-research cooperation.

The second is the lack of depth and breadth of university-industry-research cooperation. According to the current research, although local universities actively started the road of industry-university-research cooperation, the depth and breadth of the real cooperation are far from enough, so the overall effect of the cooperation of universities in industry-university-research has not reached the expected level. For example, the performance of industry-university-research cooperation in Shanghai Jiao Tong University, Fudan University and other local universities in the Yangtze River Delta has not met expectations. On the one hand, the content of cooperative projects is not much; on the other hand, the depth of cooperative research is far less than that of laboratory research in the university. Such cooperation makes the value performance of colleges and universities in the aspect of production, education and research not outstanding.

## **3. Solutions to the problem of production-university-research cooperation in local universities**

From the perspective of practical research at the present stage, local colleges and universities should actively solve the existing problems in the practice of industry-university-research cooperation, which needs to be carried out from the following aspects.

First, it is necessary to effectively utilize the resources of colleges and universities to form close cooperation between schools and enterprises. Colleges and universities have significant advantages in the cultivation of high-end talents, high - tech research and comprehensive disciplines. In terms of the current industrial development and transformation, it is dependent on high-level talents and rich scientific and technological achievements. As a reservoir of resources, colleges and universities can well help realize industrial development and transformation. Therefore, it is of significant significance to promote regional economic progress to make use of college resources in local economic development practice. From the perspective of specific work analysis, in order to better solve the problems existing in the cooperation between production, university and research, functional departments of universities need to change their working ideas in the past. On the one hand, they need to emphasize scientific research, and on the other hand, they need to pay attention to the transformation of achievements. The relevant departments of the university should encourage and support the scientific research staff to slack off their scientific research achievements or technology patents to join in the cooperative development under the premise of doing their own work well. In this way, the scientific research achievements of colleges and universities can be better transformed and their practical value will be more prominent. In the process of scientific research and the transformation of results, local universities need to emphasize deep cooperation and do a good job in resource integration. In this way, the cooperation between universities and colleges will be enhanced, and the implementation of scientific research and the transformation of results will have more human and material support. For example, universities in Shanghai, Jiangsu and Zhejiang need to make full use of their own advantageous resources in the process of industry-university-research cooperation, so as to realize the complementary resources among universities, which is of positive significance for the continuity and stability of industry-university-research cooperation.

Second, the government should play a leading role, and schools and enterprises should build an innovation platform. In terms of specific work, on the one hand, it is necessary to build scientific research bases in colleges and universities to make them the source of technological innovation, and at the same time, to use scientific research bases as platforms for the cultivation of high-end talents. In terms of the construction of the base, the participation of a single school cannot achieve the expected effect, so it needs joint construction of local colleges and universities, and cooperation with local high-tech enterprises, so as to form a university science and technology park where high-tech enterprises and college resources gather. The R&D team established in the research base is incomparable to that established by a single university or a single enterprise. Its technological advancement and the applicability of its achievements will greatly drive the local technological innovation and economic development. Generally speaking, in the current working practice, universities need to break the situation of fighting alone, change the construction mode of closed scientific research base, actively participate in the cooperation with other universities and enterprises, and realize the open construction of scientific research base. In this way, the scientific research base can provide a better innovation platform, so as to promote the cooperation and innovative development of universities and enterprises.

Third, the national University Science Park as a carrier, actively promote the transformation of scientific and technological achievements. The Yangtze River Delta is home to numerous universities and colleges, which can provide a high-quality environment for innovation and entrepreneurship incubation. In addition, technology sharing can be realized through school cooperation, which can improve the service capacity of local service organizations. Based on the current research, it can be seen that the science park does not have the functions of R&D, transformation and investment, but it can integrate the resources in these aspects. Moreover, the science park can provide various preferential policies and build the incubation service center platform, which attracts the settlement of various types of research and development institutions and intermediary service institutions. This will provide better conditions for scientific and technological innovation and achievement transformation. In general, the Yangtze River Delta region can give full play to the role of national university science Park in the process of industry-university-research cooperation, so as to realize the overall progress of related work.

#### **4. Conclusion**

To sum up, the production-university-research cooperation of local colleges and universities has positive significance for promoting regional scientific and technological progress and economic development, so it is necessary to actively promote the cooperation of local colleges and universities in the current social practice. Based on the integration background of the Yangtze River Delta, this paper discusses the production-university-research cooperation of local colleges and universities, and summarizes the specific countermeasures to solve the problem, in order to guide the practical work.

#### **References:**

- [1] WANG Shu-chang, ZHANG Hui-Guo, HONG Xue-guo. Exploration and Practice of Production-University-research Cooperation in local application-oriented undergraduate universities: A Case study of Changshu Institute of Technology [J]. Heilongjiang Education (Theory and Practice),2022(03):84-86.
- [2] Zhou Tianjian, Zhou Xiaoshu. Research on the Establishment of industry-University-research cooperation mechanism in Zhuhai-Macao application-oriented undergraduate universities [J]. Road to Success,2021(25):10-11.
- [3] Zhang Zhonghua, He Yang. The current situation, problems and Countermeasures of the integration of Production and Education in Applied undergraduate universities -- Based on the analysis of the Teaching Quality report of 5 applied undergraduate universities [J]. Applied Higher Education Research, 201,6(02):20-25.
- [4] Huang Jiangkun, Xu Yongbiao, Weng Zuying. Exploration and Practice of Promoting Production-University-research Cooperation in Local undergraduate Universities: A Case Study of Quanzhou Normal University [J]. Journal of Quanzhou Teachers College, 201,39(02):103-108.
- [5] Chen Zhihua. Problems and Countermeasures of Production-University-research Cooperation in Local undergraduate Universities under the Background of Yangtze River Delta Integration [J]. Industry and Technology Forum,20,19(21):267-268.
- [6] Zhu Yuzheng. Research on Cultivation of Innovative Talents and Cooperative Education Model of Industry-University-research Based on Applied Undergraduate Universities [J]. Education and Teaching Forum,2019(10):29-30.