

## **Exploring the joint training mechanism of inter-university graduate students in local undergraduate colleges from the perspective of collaborative innovation**

Cui Han

(College of Arts, Anyang Normal University, Anyang 455000, Henan Province)

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**[Abstract]** *With the implementation of the collaborative innovation strategy, the joint training of graduate students has become a new and effective form of promoting the development of graduate education in my country in the new era. Analyze the current situation of the joint training of postgraduates in local undergraduate colleges and universities, explore the effective mechanism for the joint training of inter-collegiate postgraduates by local undergraduate colleges, and build a scientific, systematic and efficient working mechanism for joint training of postgraduates by controlling the whole process of joint training of graduates. Integrate and utilize the resources of the main body of joint training, realize complementary advantages and collaborative innovation, and effectively improve the quality of postgraduate training.*

**[Keywords]** *collaborative innovation; graduate students; joint training; mechanism*

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### **I. Introduction**

Since the end of the last century, through continuous exploration and development, my country's graduate education has entered a stage of quality improvement and transformation, and improving the quality of talent training has become the primary task of current graduate education. In 2012, the "2011 Plan" proposed that "focusing on the reform of mechanism and system, taking the improvement of innovation capability as a breakthrough point, vigorously promoting collaborative innovation, and giving full play to the uniqueness of higher education as an important combination of science and technology first productivity and talent first resource in national development Role." In 2013, the "Opinions of the Ministry of Education, National Development and Reform Commission and the Ministry of Finance on Deepening the Reform of Graduate Education" clearly pointed out that "further strengthen the strategic cooperation between colleges and universities, scientific research institutes and industry enterprises, and support the joint construction of top-notch schools, schools and enterprises Innovative talent training platform, perfect school, school-enterprise collaborative innovation and joint training mechanism. Closely integrate with major national scientific research tasks, through interdisciplinary, inter-university, industry-university-research joint training and other ways to cultivate and cultivate technological innovation and engineering technology Leading talents in the field." With the continuous advancement of the collaborative innovation strategy, "joint training" has become the main choice for the current and future postgraduate education reform and development. It is also important for universities to optimize the allocation of educational resources and cultivate high-quality talents suitable for economic and social development. path.

### **II. The main forms and status quo of joint postgraduate training carried out by local undergraduate colleges and universities**

(1) The main forms of joint training of graduate students at this stage

At this stage, the main forms of joint training of domestic graduate students include inter-school joint training, school-government joint training, school-enterprise joint training, and school-institute joint training. Intercollegiate postgraduate joint training is the main form adopted by many local colleges and universities. It generally refers to local undergraduate colleges that do not yet have the right to independently grant graduate degrees or have a short postgraduate training time and are small in scale. Compared with domestic universities, the level of education is higher and the teachers are more powerful. Collaborate with universities with strong, high level of scientific research, a relatively complete graduate training mechanism and rich graduate

management experience to jointly carry out graduate training. The general form of intercollegiate joint training of postgraduates by local undergraduate colleges is to hire teachers with higher professional titles and strong scientific research capabilities in the disciplines with obvious advantages in local undergraduate colleges to serve as graduate tutors. Certain enrollment plans carry out joint training of graduate students. The joint training process is carried out in accordance with the agreement between the two parties, generally the whole process of "1+2" segmented training mode, that is, complete public basic courses in the enrollment unit in the first year, and conduct scientific research, internships and thesis in the joint training unit in the second and third academic years. Work, complete all teaching plans, and pass the thesis defense, and the enrollment unit will issue a diploma and degree certificate.

#### (2) The current situation of inter-university joint training of postgraduates in local undergraduate colleges

At present, colleges and universities with graduate training qualifications are actively seeking resources and conditions to upgrade the level of education and improve the quality of talent training. However, local undergraduate colleges are restricted by geographical restrictions, lack of outstanding school characteristics, and low comprehensive level. The quality of students varies in levels, and there is a certain gap between software conditions and hardware facilities and key universities. In order to improve the level of running a school, many local undergraduate colleges and universities have chosen to carry out joint training of graduate students with key colleges and universities. Through the joint training of postgraduates, it has played a good role in promoting innovative talent training models and improving the quality of talent training. For local undergraduate colleges and universities, clarifying the basic positioning of "what kind of graduate students to train" and "how to train graduate students who meet the needs of society" is the core issue in the process of graduate training. Around this core issue, local undergraduate colleges and universities have actively explored the joint training of inter-school graduate students. However, at present, the various levels of inter-university joint training of postgraduates in local universities are still complete, and there are still problems such as insufficient joint training professional fields, joint training models to be improved, and insufficient depth of cooperation between subjects.

### **III. The significance of inter-university joint training of postgraduates by local undergraduate colleges**

Local undergraduate colleges and universities play an important role in the economic and social development of local regions. To further improve the quality of talent training, it is necessary to actively implement a joint training model for postgraduates suitable for their own development. Inter-collegiate postgraduate joint training is an effective form for local undergraduate colleges to improve the level of school running and realize the transformation and development of schools. It is the choice of many local undergraduate colleges in China. The structure of postgraduate training is realized through the integration of talents, information and technology among universities. The need for adjustment is to cultivate high-level comprehensive talents so that postgraduate education can better serve economic and social development.

#### **(1) Effectively alleviate the bottleneck problem in the process of graduate student training in the enrollment unit**

In the process of inter-university postgraduate joint training, the enrollment unit generally runs a higher level, has strong scientific research capabilities, a good academic tradition, and has rich postgraduate education and management experience. However, in the process of graduate training, there are also problems such as insufficient teachers, shortage of scientific research projects, saturation of experiments and equipment. There are often cases where a tutor brings a few or even a dozen graduate students, and there is insufficient research resources for graduate students. These problems restrict the overall development of graduate education in these universities. Carrying out inter-collegiate joint training of postgraduates can effectively alleviate these problems. The source of joint training of postgraduates is mainly outstanding undergraduates from local universities. The form of joint training effectively guarantees the source of outstanding students of the enrollment unit, and outstanding teachers with strong scientific research capabilities in local universities serve as part-time jobs. Postgraduate tutors effectively complement the tutor team of the admissions unit, and the advanced experimental equipment of local undergraduate colleges effectively compensates for the lack of resources in the admissions colleges. Therefore, optimizing the inter-school joint training mechanism for local undergraduate colleges will play an effective role in alleviating the bottleneck problem in the process of enrolling graduate students in the enrollment of colleges and universities.

#### **(2) Optimize the discipline layout of local undergraduate colleges**

Discipline construction is the core competitiveness for the survival and development of local undergraduate colleges. Over the years, through the overall deployment of the country, the overall coordination

of local governments, and the unremitting efforts of local undergraduate colleges, the discipline construction of local undergraduate colleges has achieved a series of achievements. Many high-level teachers and scientific research teams have been dispatched, and the ability to serve the local economy has been continuously enhanced. However, due to the imbalance of economic and social development, higher education investment system and other reasons, there are also many problems in the discipline construction of local undergraduate colleges, and the uneven development between disciplines is becoming more and more prominent. Through the joint training of inter-university graduate students, local undergraduate colleges that have not yet obtained the qualifications for granting a master's degree or have a limited scale of graduate training can build a better academic research platform for high-end talents in certain advantageous disciplines, and thus drive more discipline teams. Optimize the layout of disciplines, form the "leading effect" in discipline construction, realize the sound development of the discipline construction of local undergraduate colleges from "local wealth" to "overall wealth", effectively improve the level of local undergraduate colleges and universities, and realize their teaching. The development of local colleges and universities with equal emphasis on teaching and research.

### **(3) Improve the quality of postgraduate training**

Graduate students are the reserve army of high-level talents in the country, and postgraduate education is an important project for the country to train high-level talents and improve core competitiveness. The rapid development of society has put forward higher and more comprehensive requirements for the training of graduate students in colleges and universities. The future society needs comprehensive talents with innovative capabilities. The ultimate goal of the joint training of graduate students is to rely on the advantages of discipline construction, pay attention to the needs of the country and society, and effectively gather the resources of the main unit of joint training. Through the effective docking, integration and sharing of the resources of both units, the joint force of graduate training is formed, and the university is in science and technology. The win-win cooperation in innovation and talent training has cultivated more high-quality innovative talents. Through joint training, postgraduates of local undergraduate colleges can enjoy more advanced teaching resources and experimental platforms, enhance their innovation capabilities, greatly enhance the breadth and depth of their knowledge and skills, and effectively improve the quality of postgraduate training.

## **IV. Local Undergraduate Colleges And Universities Carry Out The Construction Of A Joint Training Mechanism For Inter-School Graduate Students**

The joint training mechanism is the operating mode between the elements of running a university, and it is also the top-level design to realize the smooth operation of the joint training of postgraduates. The establishment of a scientific and effective joint training mechanism for postgraduates is also in line with the current joint training of graduate students in my country from "administrative promotion" to "mechanism promotion" "the trend of. The inter-university postgraduate joint training mechanism is a systematic project, which requires the orderly operation of each of the subsystems to complete the construction of key links such as enrollment, tutor management, training plan and curriculum system, thesis and degree award, and system guarantee for postgraduate training. Form a closed-loop mechanism covering the whole process of graduate training.

### **(1) Management and coordination mechanism**

In the postgraduate joint training mechanism, the management coordination mechanism plays a key role. It leads the direction of the entire mechanism and lays the foundation for the orderly operation of the entire postgraduate joint training mechanism. It is a key element to realize the "two-way interaction" between the two parties. The management coordination mechanism covers two levels of macro-management coordination and micro-management coordination. Macro-management coordination mainly refers to the policy guidance and administrative management of the education administrative department, formulating relevant policies and regulations, and forming a long-term mechanism for joint training of graduate students. This is an effective development. An important foundation for joint training of graduate students. Micro-management coordination refers to the communication and coordination between two universities that carry out joint training of postgraduates. The work of joint training of postgraduates needs to strengthen multi-level exchanges between the main units of joint training, including graduate schools (offices), training schools, and graduate tutors of both parties. Collaboration among multiple subjects such as, graduate students. As the main functional department of postgraduate management in universities, the graduate school (office) has differences in training methods, management concepts, and management systems in every link of joint training from enrollment to degree awarding, and both parties need to actively negotiate and communicate. Formulate a comprehensive joint training agreement, clarify the positioning, goals, and responsibilities of the joint training of postgraduates, and at the same time summarize the effective results of joint training of postgraduates in a timely manner, improve existing problems, and form a virtuous circle in management. Training colleges and tutors, as direct participants

in the whole process of joint training, promptly solve problems in the process of postgraduate training, and enhance the sense of belonging and happiness of joint training postgraduates, especially the communication between the two tutors in the "dual tutor system" And coordination directly affects the quality of postgraduate training.

## **(2) Training process mechanism**

One is the enrollment plan and publicity. The selection of outstanding students is an important prerequisite for the quality assurance of joint training of postgraduates. Both universities that carry out joint training should strengthen the enrollment publicity of joint training, and take into account the national education reform trend and social needs, introduce joint training enrollment preferential policies, highlight the advantages of joint training, and attract outstanding students. Students source, separate joint training enrollment indicators, implement enrollment indicator floating mechanism, appropriately expand the scale of joint training enrollment, form an effective enrollment selection mechanism, establish an enrollment committee jointly formed by both parties, pay attention to the investigation of student source innovation ability, and ensure joint Cultivate the quality of graduate students.

The second is mentor selection and guidance. The tutor is the first person responsible for the joint training of postgraduates. The universities of the two sides jointly trained can formulate a reasonable tutor selection mechanism according to the professional direction of enrollment and the research ability of the tutor, and select key teachers with high academic level, high moral quality and strong innovation ability. Jointly train graduate tutors. In view of the actual situation of joint training of postgraduates, the two units respectively select a supervisor to jointly guide the joint training of postgraduates, actively build a collaborative training model for mentors of both parties, and create a team of mentors that integrate theory and practice. This "dual mentor system" allows Graduate students have more opportunities to participate in scientific research and academic exchanges, fully absorb the superior resources of tutors, and effectively enhance the theoretical knowledge and practical ability of graduate students. At the same time, establish a joint training postgraduate tutor communication mechanism, strengthen the communication and communication between the instructors of both sides, strengthen tutor training and supervision, and improve the motivation and evaluation mechanism of tutors.

The third is the construction of training programs and curriculum systems. The talent training program is the basic proposition of universities to address the core issue of "what kind of people to train", and its reasonable positioning and optimization are highly related to the degree of achievement of graduate training goals. In view of the particularity of the joint training of postgraduates, the training colleges of the two parties should combine industry requirements, discipline and specialty characteristics and joint training goals to formulate special joint training programs for postgraduates, improve the pertinence and direction of training, and integrate their respective knowledge systems. The process of talent training should optimize the knowledge structure of joint training of postgraduates. Professional degree postgraduates should highlight the orientation of professional demand and focus on the cultivation of students' practical and professional abilities. A scientific and reasonable curriculum system is the main carrier to achieve the goal of talent training, which is directly related to the quality structure and training quality of the training objects. It is necessary to build a modular and characteristic curriculum system, emphasizing the frontier, openness and broadness of the curriculum content, and the professional degree graduate students should focus on the cultivation of practical ability and strengthen the relationship between curriculum learning and professional ability.

The fourth is the graduation thesis and degree award. Graduation thesis is an important indicator to measure the quality of postgraduate training. The writing requirements of the master's thesis for joint training of postgraduates shall be formulated by the enrolling university and completed under the guidance of the supervisors of both parties. In order to ensure the quality of talent training, the universities of the two parties should strengthen communication and exchanges, and on the basis of fully considering the training objectives, jointly study and formulate the feasibility standards for the joint training of graduate degree awards, and conduct the thesis opening, mid-term inspection, and blind review of the thesis. Strict requirements in each link, including graduation defense, to ensure the quality of joint training graduate degrees.

## **(3) Feedback guarantee mechanism**

The feedback guarantee mechanism is the main form to realize the transfer of information on the quality of postgraduate training, and an effective means to improve joint training activities. It plays a role in supervising progress, discovering existing problems, providing information, and improving management. Various problems will arise during the operation of the inter-university joint training mechanism for postgraduate students in local undergraduate colleges. How to provide timely feedback and optimization of these problems is the guarantee for the sustainable development of the entire mechanism. Improve the feedback guarantee mechanism for joint training of postgraduates, establish and improve the annual report system for joint training of postgraduates, build a scientific and reasonable monitoring and early warning system for joint

training of postgraduates, regularly publish information on the quality of postgraduate training, and promptly identify problems in the process of joint training and properly resolve them, Adjust and improve the direction of joint training to ensure the smooth and orderly operation of joint training.

#### **(4) Incentive evaluation mechanism**

The scientific evaluation mechanism can promote the joint training parties to achieve the set goals in accordance with unified standards, and is the guarantee for the realization of "synergy" among the subjects of joint training of graduate students. Improve the management system of joint training graduate students, so that the qualifications for joint training graduate students' evaluation, party membership, and awards are guaranteed. Joint training units formulate relevant preferential policies and incentive measures to adjust the psychological gap between joint training graduate students at different levels of universities and improve the enthusiasm of graduate students to participate in joint training. Aiming at the evaluation of joint training of graduate students, breaking the traditional evaluation indicators, establishing an evaluation system centered on the quality of talent training, through the collection of information in the whole process of joint training, focusing on the inspection of graduate students' scientific research ability, innovation ability and analytical solution ability, combined with postgraduate students Establish a scientific and reasonable all-round evaluation system for information such as the evaluation of employment units.

### **V. Conclusion**

Actively carrying out joint training of postgraduates under the background of collaborative innovation is an important way for local undergraduate colleges to train innovative and high-quality talents, and also an important way to improve their scientific research and innovation capabilities to better serve regional economic and social development. Through the integration of resources between the two subjects of joint training, a joint force for joint training of graduate students is formed to adapt to and meet the needs of talent training in the new era and improve the quality of graduate training. How local undergraduate colleges and universities grasp the characteristics and requirements of postgraduate joint training, and fully meet the degree-granting standards and talent training goals of postgraduate enrollment units through the construction of all key links in the whole process of joint training. This is the key to conducting joint postgraduate training. At present, local colleges and universities are still in the exploratory stage in the construction of the working mechanism of joint postgraduate training. They are actively exploring the working mechanism of intercollegiate postgraduate joint training in local undergraduate colleges under the background of collaborative innovation. Work plays an effective role in promoting.

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[About the author]: Cui Han (1980—), female, Luanping County, Henan Province, master, School of Literature, Anyang Normal University, lecturer.

Address: Anyang Normal University, Anyang City, Henan Province, 455000

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