

Research on Relationship between Academic Research and Equipment Support in Military

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Abstract—Academic research is not only one of the basic functions of college education, but also an important way to improve the quality of teaching and cultivate high-quality new military talents. It is also an important part of national and military scientific research system. Strengthening academic research work and creating a good academic research environment in military institutions will help improve the overall strength of institutions, transport more and better equipment personnel for the troops, achieve high-quality equipment research results, provide powerful technical services and human resources security, and promote the scientific development of military equipment construction.

Keywords—military academy; Scientific research management; academic research; military equipment support

I. INTRODUCTION

Military institutions, not only transporting high-quality military personnel for the construction of military equipment, but also assume the task of scientific research for the construction of military equipment to provide a strong human, material and technical support for the army, they provide important support for the improvement of military equipment construction. Therefore, we should give full play to the advantages of comprehensive disciplines, interdisciplinary, scientific research strength, to strengthen academic research work, to link between research and teaching closely, to promote the quality of school to improve the training of high-quality equipment personnel, to create high-quality equipment research results, and to promote the rapid development of military equipment construction.

II. STRENGTHEN THE ACADEMIC RESEARCH WORK, CREATE A GOOD ACADEMIC RESEARCH ENVIRONMENT, IMPROVE THE TRAINING QUALITY OF MILITARY EQUIPMENT PERSONNEL

Military equipment colleges and universities, only by a single means of teaching to improve the training quality of personnel is far from enough, it is necessary to strengthen the academic research work and constantly enrich the new theories, new knowledge, new technologies, new methods and new means of the teaching contents, to promote the optimization of teaching content, the reform of teaching methods and improve the quality of teaching to enhance the quality of personnel training[1-3].

A. Deepen the reform of teaching institutions to promote the training quality of equipment personnel

With the rapid development of science and technology, weapons and equipment are replaced frequently, which requires the institutions engaged in equipment teaching and research must continue to deepen the teaching reform, to keep up with the needs of the development and construction of military equipment in update of teaching philosophy, teaching content design, teaching methods and teaching means, etc. Practice has proved that the deepening of teaching reform and teaching quality must rely on the leading role of academic research[4]. Through the academic research work, the forefront of professional knowledge and equipment command, equipment, the latest research results can be assimilated into the classroom teaching content to provide new theories, new knowledge, new technologies, new methods, new means for

teaching reform, and to promote the teaching materials, teaching methods and teaching means of continuous change, to promote the continuous improvement of teaching quality, to improve the quality of equipment training institutions to meet the requirements of equipment personnel in modern war[5-6].

B. Create hands-on practice conditions, improve the practical ability of equipment personnel application

In the new historical period, higher requirements are put forward for military academy personnel training. For the equipment talents, in the process of learning in military academy, you not only need to master the equipment command management, engineering technology application of specialized theoretical knowledge, but also must be able to apply the professional knowledge into practice, to develop the ability to analyze problems and solve problems adapt to the needs of the troops post as soon as possible. And academic research activities are the combination of professional knowledge and practical application, which exercises the practical application ability of the participants. Therefore, the military equipment institutions should strengthen academic research work, to create good hands-on practice conditions, so that students can actively participate in academic research and scientific and technological innovation activities, to cultivate the ability to acquire knowledge independently and use the knowledge and skills to solve the problem independently for being adapted to the needs of the troops post[7-9].

C. Create a strong academic atmosphere, enhance the scientific awareness of equipment and personnel research

Military academic research activities are group activities under the leadership of departments, which takes the faculty as the main body, and students are fully involved in. Institutions should create a good academic research atmosphere, create a good scientific environment, and encourage the students of different levels, different types to participate in scientific research or technological innovation activities, so that students can question on the existing theory research results boldly in this process, put forward their own new ideas, stimulate innovative thinking, and cultivate a sense of innovation; through the full participation in scientific research or technological innovation activities, students can master scientific research methods, form scientific thinking, enhance scientific research academic awareness, training independent work ability and team spirit, in order to facilitate the students to use the knowledge, actively around the actual needs of the troops to participate in the organization or equipment academic research activities to solve the problems of military equipment construction, promote the level of equipment construction[10-13].

III. STRENGTHEN ACADEMIC RESEARCH WORK AND THE SENSE OF SERVICE TROOPS, IMPROVE THE LEVEL OF MILITARY EQUIPMENT SUPPORT CAPACITY

Serving for the army is the responsibility and obligation of the institution, which is the extension and development of teaching and academic research. On one hand, colleges and universities need to deliver a large number of high-quality personnel to the troops, on the other hand, as the leading

academic research, to provide strong support for the construction of military equipment to promote the transformation of scientific research into the troops, close cooperation with the troops to solve the difficult problem of military equipment, to improve the capacity for the construction of military equipment.

A. Do a good job in academic research results transformation, improve the level of military equipment construction

Military academies have more talents, advanced facilities, rich information resources, and have a unique condition for the development of equipment and academic research. Military institutions, most of them are equipped with academic research tasks, especially comprehensive university, engineering institutions which have a greater advantage in scientific research conditions, bear the national and military-level task research tasks, these research results can promote the reform and development of military equipment construction, promote the combat effectiveness of the army, and play a pivotal role in the construction of the armed forces. Therefore, the military academy should firmly establish the "research and development" thinking, the use of academic research activities to provide the exchange platform, strengthen military research institutes, military equipment R&D departments to communicate and accurately grasp the development trend of equipment, To carry out academic research work, and timely results publicity, expand the impact of results, and clear the application channels, as soon as possible academic research into the combat effectiveness of the troops to promote the continuous improvement of the level of military equipment construction.

B. Focus on the actual needs of the troops, solve the difficult problem of military equipment supply

Military academies as the cradle of military personnel training, not only bear the task of personnel training, but also shoulder the responsibility for the provision of technical support for the troops, especially engineering and technical institutions, which have a closely relationship with the troops, often send technical backbone to the troops to carry out teaching, patrol, technical guidance and so on. With a large number of new weapons and equipment installed troops, troops equipment security need to form a combat force as soon as possible, which requires institutions to focus on the actual needs of the troops, while actively taking the task of personnel training at the same time, the use of various opportunities to send troops to the team directly to the army to carry out various forms of technical services for the troops to provide new theories, new technologies, new methods, new training methods and other technical support, and around the technical services found in the process of problems and reflected the equipment security problems in troops, to carry out academic research topics, to carry out scientific research and academic research to solve the urgent need to solve the equipment of the troops to solve the difficult problems for the military equipment to provide a strong technical support, effectively promote the rapid formation of combat capability.

C. Adhere to the bilateral interaction of institutions and the military, improve the capability of military equipment supply

Military academic research work is to serve the teaching and military, and to provide technical and human resources support for the army, at the same time, should also adhere to the close cooperation with the forces, to form bilateral interaction mechanism, jointly carry out academic research activities around the army to improve equipment support capacity. On the one hand, academic research results in the army equipment construction obtained by solving the problem of the military equipment has been effectively tested and promote the academic research level of continuous improvement; On the other hand, institutions and the armed forces can use the academic exchange platform set up by the institutions to jointly study the difficult problems of military equipment construction and give full play to their respective advantages, and work together to carry out scientific research and academic research around the issue of equipment support, which is conducive to the complementarity of the troops and institutions to form benign interaction and improve the military equipment support capability.

IV. STRENGTHEN THE ACADEMIC RESEARCH WORK, PAY ATTENTION TO TEACHING AND HARMONIZATION, IMPROVE THE OVERALL STRENGTH OF INSTITUTIONS

Military institutions must correctly handle the relationship between academic research and teaching, mainly adhere to the teaching, supplemented by academic research, the two developed together, in order to promote the continuous development of disciplines of academic institutions, constantly improve the level of teaching staff, and constantly improve the conditions of running schools to enhance the overall strength of the school, to transport more and better equipment talent for the troops, to provide a strong technology Service and human resources protection, and to promote the scientific development of military equipment construction.

A. Strengthen the academic research and discipline construction of the organic links to promote the construction of disciplines of institutions of sustainable development

Discipline construction is the leading body in the construction of colleges and universities. It is also a key factor to improve the ability of running a school. It is also an important link in the equipment work, which directly affects the construction and development of military equipment. Academic research is the pillar of discipline construction, can reflect the level of discipline construction, at the same time, Discipline construction has a traction effect on academic research. academic research provide new contents or the discipline construction and development, the new research results will enrich the transformation of the traditional disciplines, so that the traditional disciplines of professional construction level has been improved, will also open up new disciplines of new research direction and field , Gave birth to a number of new disciplines professional growth point, so that the professional structure of the subject can be optimized, the layout tends to be reasonable. Therefore, the military academy

must strengthen the academic research work, strengthen the organic connection with the discipline construction, clear the direction of scientific research and development, timely scientific research into scientific research content, promote the sustainable development of academic disciplines, improve the level of military equipment construction.

B. Adhere to the active guidance and policy support to improve the level of construction of teaching staff

The teacher is the direct performer of the two central tasks of military academy teaching and research. It is the hub of connecting the school and the student, and it is also an important force in the construction of the military personnel. The level of construction of the faculty is a key factor in measuring the quality of a school and the quality of personnel training. With the high and new technology in the continuous use of weapons and equipment, military academy teachers must constantly improve the knowledge structure, improve the quality of capacity, so that could be competent in equipment teaching positions. Only through the development of academic research activities, teachers can broaden their horizons and ideas, understand the forefront of professional knowledge, learn to master the new equipment, and further be familiar with the principle of equipment, production technology and equipment use, maintenance management and other knowledge, so that academic level, teaching Level and professional and technical ability can be improved. Therefore, the military academy must strengthen the academic research work, establish effective academic research management and incentive mechanism to encourage the majority of teachers to actively participate in scientific research and study, to create a good atmosphere of academic research, to create advanced academic research conditions, team construction level rising.

C. Strengthen academic research and teaching resources sharing, improve the conditions of running schools

Improving the conditions for running schools, or strengthening the construction of teaching infrastructure, is an important goal that institutions are pursuing. Carrying out academic research work is an important channel to improve the conditions of school institutions. The development of academic research work, the need for higher authorities to invest a lot of money to support, including laboratory construction, laboratory equipment improvement and updating, information network expansion, enrichment of library materials, the transformation of the original experimental equipment and facilities and so on, on the one hand, these facilities and equipment can be used for the development of scientific research projects to strengthen the research conditions of their own construction, but also be shared as a teaching resource sharing, both for the scientific research provides a material basis, and improvement of the teaching conditions. At the same time, the results of academic research should first be reflected in the training for the cultivation of high-quality personnel, especially teaching and development of facilities and equipment around the normal development should be converted into teaching resources applied to the teaching of institutions, so as to improve the school's school conditions.

V. CONCLUSION

Teaching and academic research is the two functions of the institutions, they are both opposing and unified and inseparable, teaching is the basis of academic research, and academic research can promote the improvement of teaching level, thus forming a virtuous circle. Strengthening the academic research work of the military academies can promote the upgrading of the quality of equipment personnel training; improve the capacity of institutions for the construction of military equipment and the strength of their own school to enhance their work, thus promoting the level of military equipment construction to enhance the overall level.

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