Research on Construction for Discipline System of Military Research Institutes under the New System

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Keywords: Military research institutes; Implementation points; Operation mechanism.

Abstract. The construction of discipline system is an important starting point for the military research institutes to effectively fulfill the mission of scientific research transformation and meet the needs of service for military construction. Based on the conclusion of importance of the construction for discipline system, this paper illustrates the method path and implementation points from the perspective of clarifying the general idea of discipline construction, building a scientific and rational discipline system, and establishing a sound discipline operation mechanism, and try to provide a theoretical support and practical reference for relevant institutes.

Introduction

With the influence of the military transformation construction, and in-depth exchanges and cooperation, it is very important to strengthen the construction of military discipline system, to create a military academic discourse system with Chinese characteristics and international vision, and to form an epoch-making military academic ideology and academic achievements worthy of times. Although the new round of military reform has gained much progress, the military research institutes have not formed a systematic, reasonable and efficient discipline system around the target of effective fulfilling the mission of military research transformation. In terms of discipline construction, there are still contradictions such as unclarified awareness, unclear construction ideas, and improper operation mechanism. Therefore, it is imperative for military research institutes to carry out research and demonstration on discipline system construction under the new system, so as to provide paths and methods for the transformation of military services, and provide first-class military theories and technology for the construction of world-class troops.

Clarifying Misunderstandings, Raising awareness, and firmly establishing the Important Status of the Discipline

At present, there are still some misunderstandings and prejudices about the research institutes' discipline construction and their status. Firstly, the research institutes only need to carry out construction and research according to the intention of the leading cadres, the arrangement of the higher authorities, and the demands of the troops. The role of the discipline is very minimal. Secondly, the core mission for discipline construction belongs to an educational institution with personnel training as its central task. It is of little practical significance for scientific research institutes with scientific research as their main task, and it is not necessary to spend too much energy to cultivate a discipline system. Thirdly, all the administrative departments in scientific research institutes have got their respective tasks for the operation of the institution, however, the construction of discipline is optional, and there is no need to repeat construction like the educational institutions. Last but not least, the military organizations often emphasize administrative effectiveness, however, discipline system is an academic organization, which is restricted by the implementation department, and doesn’t have an intuitively promotion effect for scientific research work. Therefore, in order to promote the effective implementation of discipline construction, it is very important to clear up the misunderstanding, raise awareness, and fully recognize the important role of discipline construction for the development of military research institutes.
The discipline construction can be viewed as an important support for the sustainable development of the military research institution. The construction of disciplines has a profound impact on the development of research institutes. It can provide a clear direction for scientific researches, a reasonable and system idea for the achievements system, a clear overall goal for strengthening the personnel team, and a detailed blueprint for the improvement of infrastructure. Therefore, for a military research institute, discipline construction is a leading project with long-term development, which should be scientifically planned, and rationally deployed.

Discipline construction can be viewed as an effective means for the innovative development of military research institution. The level of discipline construction is an important manifestation for scientific research capability, a prominent symbol for the level of the institution, and the base point for carrying out the scientific research. A systematic and scientific discipline structure is crucial for the development of scientific research. An accurate and reasonable discipline construction direction plays an indispensable role in stabilizing research fields and regulating academic activities. In addition, the discipline construction can comprehensively and systematically solve the problems for research direction, system construction, operation mechanism, achievement innovation and application transformation, which is an indispensable platform for promoting scientific research and innovation development.

Discipline construction can be viewed as a powerful engine for the mature development of military research institutions. Contemporary science is highly differentiated and highly integrated. The high degree of differentiation makes the direction of each discipline becoming clearer and clearer, while the high degree of integration makes it impossible for any of them to be independent from others. The research field of military research institutions involves all aspects of military construction. It is impossible to cater for all the needs of the missions by relying on an individual or a few research laboratories. By constructing a discipline system, establishing a systemized, modular, and streamlined scientific research operation mode and collaboration mechanism can effectively break down organizational structure barriers, administrative power barriers, and responsibility isolation. Therefore, all the personnel, funds, and resources can be concentrated to discipline system, and form a joint effort to achieve breakthroughs in innovation.

**Scientific Design, Overall Layout, and Clarifying the General Idea of Discipline Construction**

With the continuous development of science and technology, the characteristics of multi-discipline integration and multi-domain technology integration have become increasingly prominent, the military research institutions have to rely on team strength to gather intelligence and finish their missions. Under the new system, in order to ensuring the establishment of strong scientific research teams and the formation of scientific research resultant, research institutions should work hard to build a discipline structure with outstanding features, obvious advantages, synergy system and cohesive development.

Adhering to centralized management to ensure priority development. Discipline construction is the foundation and engine for the development and construction of scientific research, and should be prioritized as the core project. It is necessary to strengthen organizational leadership, scientifically depict the blueprint, clarify the development of disciplines, improve discipline system, and innovate the development momentum of disciplines, so as to promote innovation breakthroughs in academic achievements.

Adhering to integrated planning to ensure coordinated development. For discipline construction, the quality of scientific research is the goal for eternally pursuit, the research direction is the forward direction, the specialty team is the engine for development, the achievement system is the soul vein, and the infrastructure construction is the guarantee of efficiency. Each aspect can be viewed as an important part of discipline construction. The strengths and weaknesses of each field directly affect the quality and efficiency of discipline construction. It is necessary to adhere to integrated planning, compound design, and coordinated actuation to ensure the effectively improvement of the discipline construction and scientific research.
Adhering to system arrangement to ensure balanced development. By constructing a complete and mutually supportive discipline system, the academic ecology of crossover and penetration for research directions can be established, and the synergy advantages of integration and optimization for specialties can be formed. In order to provide a strong support for improving the comprehensive scientific research strength for military research institutes, it is necessary to find the right position, maximize the comprehensive strength in all directions, and form a joint force of disciplines and groups to promote scientific research and innovation.

**Integrating Strength, Focus on Key Issues, and Building a Scientific and Rational Discipline System**

Under the new system, most of the military research institutes are newly built, and the tasks are complicated and heavy. Therefore, the discipline construction should avoid excessive dilution of limited resources, ensure the integration of multi-party forces, focus on construction priorities, and strive to form a multi-directional force and a full-dimensional cohesion.

Designing in upper level, and issuing a guiding, and normative document. The discipline development project is a systematic project involving many professions, mixed content, and wide scope. Therefore, system design, overall planning, hierarchical construction, and planned construction of discipline construction are very important. The "discipline construction development plan" should be organized and demonstrated, and the "discipline construction implementation plan" should be issued to ensure the overall planning and scientific design of discipline construction can be implemented.

Calibrating the duties, and clarifying the list of disciplines. According to the catalogue of military disciplines, combined with the division of tasks of research institutes, the division of disciplines, the decomposition of academic orientation, the enrichment of personnel base, and the establishment of construction priorities should be clearly defined. In order to solidly carry out the construction of discipline system framework, and clarify the disciplines and research directions of each research branch, the catalogue of discipline categories and professional directions should be formed as soon as possible.

Consolidating the foundation, and strengthen the basic theoretical innovation of disciplines. Combining with the demands of the military development, focusing on the function and duty of scientific research institutes, aiming at the forefront of world military transformation, and relying on the cross-infiltration and integration of related disciplines, the military institution should modify the discipline theory, form the "topological map of the subject theory system," optimize the theoretical system, and explore ways to broaden the basic theory innovation of the discipline.

Strengthen fundamental elements, and selecting subjects, and academic leaders. "Academic Leaders Appointment and Management Measures" should be formed. And sufficient scientific research backbones with strong theoretical foundation, solid research capabilities, rich scientific research experience, forward-looking strategic vision and broad knowledge should be selected as academic leaders. They will effectively play the role of “leadership” and “main heartedness” in clarifying the direction of disciplines, leading the development of disciplines, and promoting discipline construction.

Building an elite team, and modifying the talent selection criteria. Adhering to the guiding ideology of focus on development and meet urgent demands, in accordance with the relevant military policy provisions, military institutes should release some regulations such as "Decision Requirements for Cadre Selection and Adjustment" and "Detailed Rules for the Selection and Selection of Cadres," "Implementation Rules for the Employment Management of Civilian Personnel," so as to scientifically standardize the selection criteria of scientific personnel, and strictly recruit the outstanding talents with high quality and military experience to complement the research team.
Optimizing Resources, Streamlining Processes, and Establishing a Sound Discipline Operation Mechanism

In order to ensure the favorably construction and the efficient operation for discipline system, the military institutes should constantly build and improve the working mechanism and supporting and guarantee mechanism.

Establishing a training mechanism for academic leader. The selection, appointment and tenure assessment mechanism for academic leaders should be established and constantly improved. The military institutes should use one to two weeks to organize the training for academic leaders, and implement an annual discipline construction and development reporting system. A special report to the scientific research committee on the annual progress of the discipline and academic frontier dynamics should be made by each academic leader so as to effectively strengthen his awareness of responsibility.

Establishing an expert decision-making mechanism. The discipline development project is a basic project, which related to the overall situation of the construction and development for the military institutes. In order to facilitate the process of the discipline construction, it is very important to rely on the function of decision-making consultation from expert teams. A professional committee should be established and consulted before making decisions on major scientific research and academic issues. The committee is composed of different experts from various disciplines. All the experts’ initiative and creativity should be effectively mobilized, and their role of leading and influence should be fully played.

Establishing a normalized academic exchange mechanism. The channels for information exchange and resource sharing, and the pattern for collaborative research should be established. All kinds of academic exchange forms should be adopted, including academic conference, seminars, review meetings, and appraisal meetings. Each month, a researcher from an external unit or an excellent researcher in the unit should be selected to make a special academic report. It mainly introduces the frontier of the discipline, or the hot topic and hardship of the military, etc. With the report, new ideas, new measures and new achievements can be shared among all the researchers.

Establishing an expert sharing mechanism. In accordance with the concept of “sharing not for me, but for my use,” in the form of hiring external experts, the military institutes should cultivate a joint expert pool. The experts in the pool are from headquarters, military colleges, military bases and local think tanks. In the initiation, implementation, evaluation, review, application and other aspects of scientific research projects, the appraisal meetings should be held, and all the experts’ opinions and suggestions should be extensively incorporated. Only in this way, the research mode of fully participation from experts can be formed, and a stable and accurate guidance for scientific research can be provided.

Establishing a special funding support mechanism. It is necessary for military research institutes to establish a stable funding support mechanism for scientific research system construction, the establishment of R&D incentive mechanism, the construction of relevant infrastructure, the reward of theoretical innovation, and the promotion of academic activities. The use of funds can be implemented on an annual basis, in stages and in batches. In combination with the construction of relevant infrastructure, the annual construction will be carried out in a batch of discipline construction projects, covering all the items including laboratories, studios, seminar rooms, data rooms and archives rooms.

References

