

Accelerating the Capitalization of Achievements of Science and Technologies and Promoting of the Transformation of Research Products of Institutes and Universities

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Abstract: The capitalized market of scientific and technological achievements in our country has made great contributions to the transformation of scientific and technological achievements and the development of society since it came into being in the 1990s. But there are still a series of problems. In this paper, the capitalized market of scientific and technological achievements and the problems existing in the transformation of scientific and technological achievements in colleges and universities are analyzed in detail. Countermeasures for improvement are proposed.

Keywords: Capitalized Market; Transformation of Scientific and Technological Achievements; Essential Problems; Suggestions

Introduction

With the development of the global economy, scientific and technological innovation is increasingly becoming the core competitiveness. To enhance the core competitiveness of technologies, within the current developing status of our Country, it is necessary to vigorously promote the transformation the scientific and technological achievements of institutes in universities into industry powers. However, due to the late start of scientific research in our country, there is a focus on theoretical rewards. Therefore, this article will focus on the capitalization of scientific and technological achievements, hoping to provide some reference for the transformation of scientific research achievements in universities.

1. Origination of the question

This subject aiming at the problems existing in the process of promoting the transformation of scientific and technological achievements by the capitalization of scientific and technological achievements, researching the mode and path of the capitalization of scientific and technological achievements and the transformation of scientific and technological achievements, in order to find a transformation of scientific and technological achievements suitable for China's national conditions It promotes the transformation of scientific and technological achievements into scientific and technological products, forms a scientific and technological industry, and creates greater economic benefits to promote sustainable economic and social development.

2. Analysis of the Current Situation of the Capitalization of Scientific and Technological Achievements in China

2.1 Market Situation of Capitalization of Scientific and Technological Achievements

For a long time, my country has always had the problem of the division of science and technology and economy into separate systems, making it very difficult to transform scientific and technological achievements.

2.2 Problems in the capitalization market of scientific and technological achievements

The capitalization market of scientific and technological achievements is a new thing after China's reform and opening. There are still some problems in its operation, especially the transformation of scientific and technological achievements in universities, which prevents the role of the technology market from being effectively played and affects the transformation of scientific and technological achievements into real productivity to varying degrees. transformation.

2.3 Analysis of the underlying reasons of difficulties of the transformation of scientific and technological achievements in universities

In colleges and universities refers to the follow-up experiments, development, application, and promotion of scientific and technological achievements with use value produced by scientific research and technological development by scientific and technological personnel in scientific research institutes of various universities to improve living standards until the formation of new products.

However, the transformation of scientific and technological achievements in colleges and universities is a complex system engineering, which is both a scientific and technological behavior and an economic behavior. How to better transform the scientific and technological achievements of colleges and universities into actual productive forces is a major issue to be solved in the reform of China's scientific and technological system. Universities play an important role in the development of science and technology in China, especially in the process of transforming scientific and technological achievements into productive forces. However, the degree of commercialization and industrialization of scientific and technological achievements in Chinese universities is relatively low, and it is difficult to transform a large number of scientific and technological achievements into actual productive forces . Universities authorize each year The application rate of tens of thousands of patented technologies is less than 25%. This shows that the low conversion rate of scientific and technological achievements in my country's colleges and universities is relatively serious, and it also shows that there is a huge waste of scientific and technological resources in our country.

3. Suggestions on accelerating the capitalization of scientific and technological achievements and promoting the transformation of scientific research achievements in universities

3.1 Implement the law management to ensure the smooth progress of the transformation of scientific and technological achievements

The implementation of rule of law management is an important guarantee for the transformation of scientific and technological achievements. The scientific and technological management of colleges and universities should gradually form a contract-based management method to make the transformation of scientific and technological achievements procedural and legal, to ensure the smooth progress of the transformation of scientific and technological achievements.

3.2 Creating an environment for the transformation of scientific and technological achievements in colleges and universities, based on the technology market

Colleges and universities should rely on the tangible technology market established and cultivated by the state to form a network hub for the technology transformation market of colleges and universities. Establish an intermediary system for the transformation of scientific and technological achievements with complete functions and considerate services and become an intermediary organization for the transformation of scientific and technological achievements.

3.3 Reform the scientific research project approval system and establish a market-oriented project approval mechanism

The choice of topic is the strategic starting point in the research process, and it is the most complicated stage in the research work. The first principle of scientific research topic selection should be the needs of economic construction and social development. Under the situation of market economy, scientific and technological achievements must meet the requirements of the market before they can be accepted by the market. Therefore, in the establishment of scientific research projects, colleges and universities should reform the past project approval system of selecting topics from materials and documents, establish a market-oriented project approval mechanism, and search for topics in the market, so that project approval, pilot tests, and industrialization are closely integrated with production benefits. , making scientific and technological achievements from "experimental" and "technical" to "production" and "market", thereby improving the maturity, advancement, applicability and efficiency of the achievements. Colleges and universities should also rely on national industrial policies and the needs of enterprise market development investment under the conditions of relative availability of projects, talents, technologies, and test equipment. New achievements, new technologies, and new products are introduced to the market as soon as possible.

3.4 Broaden the source of funds for scientific and technological investment and provide financial guarantee for the transformation of scientific and technological achievements

In the long run, it is still necessary to actively explore various types of venture capital mechanisms such as "government support, technology loans, enterprise investment, and social fundraising" to form a multi-channel and multi-form technology investment system for the whole society, so that the scientific and technological achievements can be achieved. The conversion is guaranteed with sufficient funds.

3.5 Reform the methods of acceptance and appraisal of scientific and technological achievements

There are many factors involved in the transformation of scientific and technological achievements in colleges and universities. Establishing a benign mechanism for the transformation of achievements is an arduous and complicated task, and it is also a long-term task that requires the efforts of all parties concerned and needs to be continuously summarized in practice. Promote the transformation of scientific and technological achievements in colleges and universities to develop in depth.

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