Deepening University-Industry Cooperation and Collaborative Innovation, and Improving Teaching and Creativity

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Content

1. Exploration and outcomes of Chinese universities in collaborating with enterprises and research institutes
2. Plans for further enhancing industry-university-research institute collaboration
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Basic information on China’s Higher Education

- Steady improvement of mass higher education and human resources development
- Continuous improvement of higher education quality
- Considerate enhancement of the ability to serve the economic and social development

- 2560 General Universities
- 36.47 million enrollment
- 40% gross enrollment rate
Student training

Setting up a new mechanism of student training featuring collaboration between universities, research institutes and enterprises, and turning more social resources into useful resources for universities to train students.
Exploration and outcomes of Chinese universities in collaborating with enterprises and research institutes

Raise China’s manufacturing power and promote engineering education by collaboration

- Implement the “Outstanding Engineer Education Training Program”
  - Work with 29 sectors and industrial associations
  - 208 universities and colleges, 1,275 bachelor’s degree program units, 514 subject units, 260,000 students
  - Nearly 20,000 enterprise employees serve as part-time faculties, and more than 10,000 university and college teachers take a temporary post in enterprises for learning purpose

- Implement the industry-academy cooperative education program
  - More than 200 universities and colleges work with Alibaba and other established businesses at home and abroad
Establish a “Healthy China”, meet the demands of modern agricultural development, and enhance medical, agricultural, forestry education by collaboration

- Promote medicine-education cooperation and develop a standard training pattern for clinical medical students
- Strengthen agriculture-science-education cooperation and establish 100 talent training bases
Govern China according to the rule of law and promote legal-science education by collaboration

- Implement the “Outstanding Legal Talent Education Training Program”
- Cover 29 provinces (regions and cities) and 322 universities

Pay special attention to work related to news and public opinions and promote journalism-communication education by collaboration

- Implement the “Outstanding Journalism & Communication Talent Education Training Program”
- Cover more than 300 universities and colleges and benefit over 230,000 students
Focus on science and technology and combine science-education for talents cultivation

- Implement the “Science-Education Cooperation for Talents Cultivation Action Plan” together with Chinese Academy of Sciences
- Cover 350 universities and colleges and 120 research institutes, benefit 160,000 students each year
- 53 universities and 181 research institutes work together for postgraduate education. Over 5,400 doctoral students have been enrolled in the last five years.
Exploration and outcomes of Chinese universities in collaborating with enterprises and research institutes

• Scientific research

Sticking to the demand-driven, fully open and innovation leading principles, focus on the reform of institutional mechanism, spare no efforts to break the closed and scattered pattern, build up a innovative system with multi-disciplinary integration and university-industry cooperation.
Implement “Program of Promoting Universities' Innovation Capacities”

– Improve the overall innovation capacities of talents, discipline and research

– Establish four modes of Collaborative Innovation which can capture the leading edge of scientific research, ensure cultural continuity and meet major demands of in industry and areas

– Determine 38 national “Collaborative Innovation Center”
Exploration and outcomes of Chinese universities in collaborating with enterprises and research institutes

Improve the transformation of universities’ scientific achievements

- Formulate 《Opinions about Improving Transformation of Universities’ Scientific Achievements》

- Establish institutions for scientific research and technology transformation by joint effort of universities and companies

- Optimize performance assessment system of scientific achievements transformation
Enhance universities’ capacities on scientific innovation

- Universities take the leading role in undertaking more than 80% programs of The National Natural Science Fund.

- More than 60% of State Natural Science Award, State Technological Invention Award, and National Award for Science and Technology Progress are won by universities.

- Among 8 theses, one of them are published by Chinese universities.
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In the world:
Revolution of world’s technology and industry is accelerating.
The quality of higher education stands for national core competence.

In China:
the critical phase for China to a moderately prosperous society
China’s New normal
National strategies and initiative such as “Made in China 2015” “Internet Plus”
“The Belt and Road”
中国制造 2025
Plans for further enhancing industry-university-research institute collaboration

Deepen industry-academia cooperation and improve the quality of talent cultivation

- Improve the full process of industry-academia cooperation
- Build up pilot base in cooperation with industry and trade
- Develop dual exchange mechanism between university faculty and industry/trade experts
Plans for further enhancing industry-university-research institute collaboration

Promote collaborative innovation between university and business and improve research innovation

• Advance the Programme of 2011
  problem-oriented, reform-driven, prior incubation
• Implement University-based S & T Achievements Transfer Action Plan
  promote the application of S & T achievements
  encourage part-time and off-job entrepreneurship
Establish international collaboration mechanism and strengthen innovative synergy

- Joint training of internationalized talents
- Advance international collaborative innovation
  - establish a number of high-level international collaborative laboratories and research centers
  - incentivize universities to participate in international major science initiatives and programmes
Thank you!