Province focused on transforming research into profit

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Zhai Wanming, a chair professor at Xinan Jiaotong University in Chengdu, capital of Southwest China's Sichuan province, is going through procedures to determine his research and development team's share of a special technology's intellectual property rights.

Zhai, who is also an academician of the Chinese Academy of Sciences, and his team have contributed the new technology to construction of the world's first new energy suspension railway.

Although Germany and Japan own the technology to suspension railways, their railways are powered by the grid system. The new energy railway made by his team is powered by a lithium battery pack instead of high-tension electricity. It is the world's first, he said.

Zhai's team is expected to own 70 percent of the technology and team members' ownership of the technology can be calculated into shares in a private company in Chengdu, according to a new regulation stimulating innovation made by Xinan Jiaotong University in January 2016.

To spur the enthusiasm of scientists and technicians in institutions of higher learning for innovation and entrepreneurship, Sichuan has formulated policies allowing them to turn their technology and fruits of their scientific research into shares in companies, said a source from the Sichuan provincial government informa tion office.

In January 2016, Xinan Jiaotong University announced policies to divide ownership of technology between the university and R&D teams. Since then, the ownership of

160 inventions made by R&D teams has been divided between the university and the teams.

As team members are employees of the university and are paid by the university, the university owns a certain percentage of the intellectual property rights of inventions. In the case of the technology of Zhai's team, the university is expected to own 30 percent of the rights.

Sichuan's policies of dividing the ownership of technology are a win-win solution as institutions of higher learning, R&D

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Gao Wensheng, executive president of the Tsinghua University Energy Internet Research Institute

teams and companies can work together to turn new technology into market products.

Since January 2016, R&D teams at the university have used the fruits of their research to set up seven high-tech firms.

The Tianfu New Area in Sichuan, China's 11th nationallevel development area, has lured a great number of topnotch universities in China and other parts of the world to conduct scientific research and turn the results of that research into marketable products.

Tsinghua University established the Energy Internet Research Institute in the Tianfu New Area on March 18. 2016, following the signing of an energy cooperation agreement between the university and Sichuan a year before.

Gao Wensheng, executive president of the institute. said: "We have confidence in the Tianfu New Area, which boasts a beautiful environment, up-to-date facilities and considerate government services"

The introduction of the institute marked the Tianfu New Area's unremitting efforts in achieving innovation by cooperating with institutions of higher learning. This year, the Tianfu New

Area will adopt more policies to introduce talented personnel, stimulate the shift of scientific research results into marketable products and achieve innovation with the cooperation of institutions of higher learning, according to its decision-makers



Staff members adjust equipment at Sichuan Energy Internet Research Institute of Tsinghua University, provided to CHINA DAILY



C919 . L

Technicians at the AVIC Chengfei Commercial Aircraft in Chengdu emble a windshield for the nose of the C919. LIU KUN / XINHU

pany.

According to Liu Tianhua,

an engineer of CETC Avion-

ics, the C919 is not the first

domestically made big plane

project involving the com-

communication and naviga-

tion system for the AG600,

which is China's first large

The AG600, the largest

amphibious aircraft in the

world, will have its maiden

flight in the first half of this

year, according to the Sichuan

provincial government's infor-

Sichuan Jiuzhou Electric

Group in Mianyang, the sec-ond-largest city in Sichuan, is

It is the first time that Sich-

uan Jiuzhou Electric Group

has participated in the devel-

opment of a large plane, as it

made the cabin core system. According to Li Yixun, a

staff member of the research

group from Sichuan Jiuzhou

also involved in the C919.

amphibious aircraft.

mation office.

CETC Avionics made the

Sichuan-made parts

Many parts of the C919 are made in Southwest China's Sichuan province, including its nose, avionics system, recreation equipment in its cabin, interior lighting and radio, according to the Sichuan provincial government information office.

Located in the Sichuan provincial capital of Chengdu, CETC Avionics was set up by China Electronics Technology Group (CETC) with an investment of 1 billion yuan (\$145 million) in 2009 to make the communication and navigation, data chain, cabin core, airborne entertainment and information systems.

The communication and navigation system is at the core of the plane's avionics, taking charge of the airground conversation during take-off and landing, as well as voice and data communication inside the plane and radio navigation.

280

billion yuan output value of Sichuan's military-civil integration sector in 2016

Electric, the cabin core system consists of passenger broadcasting, cabin interphone and self-inspection.

Sichuan Jiuzhou Electric also made the lighting equip-ment for the cabin of the C919. The main lighting equipment is the so-called LED wall washer, which gives off a light that resembles water gently vashing the surface of a wall.

The nose of the C919 is made by AVIC (the Aviation Industry Corporation of China) Chengfei Commercial Aircraft.

According to Chen Yong, senior technician at AVIC. the noses of both the ARJ21, which is China's self-designed regional jet liner, and the AG600, are made by the com-

Military-civil integration

All the above-mentioned companies are in the military industry and engaged in the manufacturing of products for civilian use

Sichuan has many military ompanies with a competitive technological edge.

The Chinese government has included the integration of military and civil industries in its national strategy.

At a panel discussion with lawmakers from Sichuan during the annual session of the National People's Congress in Beijing in early March, President Xi Jinping called for the acceleration of the integration of military and civil industries, adding that a high-tech industry base should be built for military-civil integration.

first eight experimental zones for all-round innovation and reform, and is home to the country's first zone making use of deep integration of mil-itary and civil industries to push forward all-round innovation and reform.

According to Chen Xinyou. head of the Sichuan Provincial Economic and Information Commission, the output value of Sichuan's military-civil intebillion yuan in 2016, up nearly 8 percent over the previous

Sichuan has signed agreements with 12 military group companies under the central government to make use of their technological knowhow to serve the civil sector, he said.

In August 2016, a pro-

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Sichuan is one of China's

gration sector surpassed 280

gram related to the accelerated implementation of military-civil integration was announced in Sichuan. The province aims to nurture 10 big companies over the next five years, each with an annual output value of more than 10 billion yuan, Chen said

Business and innovation center supports EU-China trade growth

By ZHUAN TI

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bly line.

ity

In 2007, the State Council,

China's central government,

approved plans to develop a

Chinese-built large passenger

jet. Eight years later, the first

C919 jet rolled off the assem-

The "C" in the aircraft's

name stands for both China

and Commercial Aircraft Corp

of China (COMAC). The num-

ber 9 symbolizes "forever" in

Chinese and 19 represents its

190 seats at maximum capac-

With a standard range of

4,075 kilometers and maxi-

mum range of 5,555 kilome-

ters, the narrow-body jet is

comparable with updated

Airbus 320 and Boeing's

new-generation 737 planes,

according to American avia-

Made by the COMAC, the

C919 is hailed as a notable

achievement in the develop-

ment of China's civil aviation

a New Jersey-based aviation consultancy in the United

States, said that the C919

could compete with the cur-rent Boeing and Airbus duo-

poly, particularly if it became

the preferred airliner of Chi-

nese domestic airlines.

Brian Foley, president of

tion experts.

industry

The Business & Innovation Centre for China-Europe Cooperation (CCEC) formally started operation in the Chengdu Hi-Tech Industrial Development Zone in Chengdu, capital of Southwest China's Sichuan province, on May 10.

Covering about 210,000 square meters, the center has attracted investment of about 3 billion yuan (\$435 million). It includes a display and transaction area for European commodities and an area for the transaction of Chinese and European technologies.

The center serves as a platform for the western part of China to cooper-

ate with Europe in trade. investment and technology. It is also home to a the-

ater, a gallery for international art and a Chinese-European entrepreneur's association

Hans Dietmar Schweisgut, European Union ambassador to China, was present at the formal opening ceremony of the Business & Innovation Centre for China-Europe Cooperation on May 10.

He hailed the center as a good platform for international cooperation.

He said he hopes that it can become a home for small and medium-sized companies from Europe, and that more of them will come to China, and Cheng-



The Business & Innovation Centre for China-Europe Cooperation is located in the Chengdu Hi-Tech Industrial Development Zone. GAO WUHUI / FOR CHINA DAIL

du in particular.

The EU Project Innovation Center (EUPIC), which is in charge of operations at the Business & Innovation Centre for China-Europe

Cooperation, has cooperated with the European Union for many years.

210k

square meters

land area of CCEC in the Chengdu high-tech zone

3

billion yuan investment attracted by CCFC

Thanks to the EUPIC, the business and innovation center will create more cooperation and development opportunities for small companies from China and

Europe, Schweisgut said.

The EUPIC is a non-profit organization established in Chengdu in 2006 under the Asia Invest II Project, an EU initiative promoting and supporting business cooperation between the EU and Asia

Chengdu is promoting environmentally friendly development, stressing the green growth model and technology, while compa-nies in the EU are strong in these fields, Schweisgut said.

He said that both sides could cooperate in green energy, technology and transportation as well as sustainable urban development and environmentally friendly building materials.