

University of California Research and Educational Opportunities with China

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What are our core strategic advantages?

- The unique scope and scale of our research capacity: 10 campuses, hundreds of existing collaborations.
- Richly interconnected UC “family” in China, and *vice versa*
- Our entrepreneurial character and track record in building multi–sector partnerships for research, development and delivery
- The deep historical, economic, and cultural ties between China and California.



The Core Approach of the “10+10”

- Identifying interdisciplinary challenges of vital importance to the health, welfare and economic vitality of both China and California;
- Pulling together new partnerships which include academia, government, industry and non-profit sector in both regions;
- Re-structuring educational experiences of our students to focus on working in binational teams to address common practical challenges

The most daunting challenge is the transformation of our curricula.



Funding Sources - US

- Government
 - NSF, NIH, DOE, DOA, etc.
- UC System
 - UC PRRP (Pacific Rim Research Program)
 - UC Discovery, CITRIS Seed Fund, others???
 - 10+10 core seed funding pending
- Individual UC Campus funding, e.g. UC Davis seed funds
- Private Foundations
 - Luce Foundation, Ford foundation, Energy Foundation, etc.
- Industry
 - Shell, GM, Chevron, etc.



Funding Sources - China

- Government
 - NNSFC (National Natural Science Foundation of China)
 - MOST(Minister Of Science and Technology
 - MOE (Ministry of Education)
 - 985 / 211 Initiatives
 - 111 Initiatives
 - CSC fellowship
- International Companies
 - GM China, Dow Greater China, BP China, Microsoft China, etc.



Green Energy and Transportation

- Research Areas
 - Renewable Energy, Transportation Fuels, Energy Policy and Management, etc.
- Partnerships
 - ITS / UC Davis, CE-CERT/Riverside, CITRIS/Berkeley, Tongji, Shanghai Jiao Tong, Tsinghua, LNBL
 - Bay Area Economic Institute
 - Berkeley Chinese International Alumni Association
- Funding
 - NSF, DOE
 - Dow Chemical, Applied Materials, Energy Foundation, etc.
 - UCOP



Sustainability of Wilderness Areas: Yosemite-Jiuzhaigou

- Research Areas
 - Issues facing both national parks, including hydrology, biodiversity, forest ecology, park management, etc.
- Partnership
 - UC Davis, UC Merced, Sichuan University
 - Yosemite National Park, Jiuzhaigou National Natural Reserve
- Funding
 - Sichuan Province, Chinese Ministry of Education, Chinese “111” Project, etc.
 - NSF, UCOP



California-Sichuan Earthquake Initiative

- Collaboration Areas
 - IT for Disaster Response; Mental Health; Seismology; Earthquake and Structural Engineering; Urban Planning, Legal, Social, Economic, and Educational Aftermath, etc.
- Collaboration Team
 - To date, participation from from 5 UC campuses, Lawrence Berkeley National Lab, PG&E, California Geological Survey
- Funding
 - NSF, DOE, PG&E,
 - UCOP



Hanwang Township, Mianzhu, Sichuan



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Neurodegenerative Diseases

- Research and Education Areas
 - Alzheimer's Disease, Degenerative Dementia
 - Clinical neurosciences collaboration
 - Train caregivers and community physicians, focus on Asian outreach
- Partnership
 - UCSF, Gladstone Institute, Peking University, Shanghai Jiao Tong University, etc.
- Funding
 - NIH, UCSF, etc.



China Scholarship Council Programs

China Scholarship Council (CSC) provides support in two major categories:

1. Support for Chinese students to undertake doctoral studies at UC campuses (up to 4 years of support, including “living expenses” at about \$1,100/month, and RT airfare), and
2. Support for “visiting researchers”, including graduate students, postdocs and faculty. This could be very useful in developing “sandwich” programs with Chinese partner universities

For more detailed info, contact Xia Teng (Xia.Teng@ucop.edu)



Summary

We have an incredible strategic opportunity before us.

Moving forward we need to balance strengthening opportunities for individual faculty to pursue their interests, on the one hand, with exploring new models for large-scale interdisciplinary initiatives, on the other, so as to **build on UC's comparative strategic advantages.**

Some sample initiatives were outlined; **many** others would be exciting.

In order to maximize the potential of this “binational grand challenges” approach, fundamental transformation of curricular pathways for students will be required. **UC Davis could play a key intellectual leadership role.**

Long-term prospects for funding for such large-scale initiatives are very promising.

