



Professor Xiang ZHANG's presentation at the consultation sessions (main points)

A. Leadership experience

(1) Lawrence Berkeley National Laboratory

- ✧ Managed about 900 research and administrative staff which includes more than 65 faculty members, 15 national academy members. Management responsibility includes research and development, budget, human resources, national facilities, government relation, community engagement, industrial and international collaborations.
- ✧ Enhance relations with US Government Department of Energy
- ✧ Launched four major new initiatives and expanded programs by 25%
- ✧ Recruited world-leading scientists. Established Berkeley National Lab's global leadership in computational materials research. Retained rising star scientists

(2) Management Experiences at NSF Nano Center

- ✧ Led 100 faculty, students, and staff members in 6 institutions (Berkeley, Stanford, MIT, UCLA, Northwestern, North Carolina)
- ✧ Built an industrial consortium, recruited companies and created startup companies
- ✧ Resolved faculty conflicts by communicating with/convincing faculty in developing a new thrust, which flourished with industrial funding and won major grants
- ✧ Outreach to the local community by creating the Nano-Manufacturing Summer Academy that enable minority high school students to conduct research with faculty in the Center

(3) National and International Collaborations

- ✧ Collaborate with national institutes, such as Los Alamos National Lab, National Institute of Health, California Nanosystem Institute, etc.
- ✧ Collaborate with universities and corporations internationally, including but not limited to University of Tokyo and Hitachi Corp (Japan), Imperial College and University of Birmingham (UK), Laser Zentrum Hannover (Germany) and Nanjing University (China), KIAST and Samsung Corp (Korean), MIT, Stanford, Caltech and Keck Foundation, and Moore Foundation (US)

B. Key Strategies to Achieve Vision for HKU as a World Leading University

(1) Building World-Class Faculty and Fostering Interdisciplinary Collaborations

- ✧ Increase endowed professorship, recruit/retain the world's best faculty

- ✧ Foster the culture of “team science” and organize big-idea brain-storming workshops that bring together medical science, business, liberal arts and engineering.
- ✧ Mentor junior faculty and nurture them to become stellar scholars

(2) Enhancing Student Learning Experiences

- ✧ Champion for teaching innovation
- ✧ Encourage active learning, such as inquiry-based learning, and stimulate students’ critical thinking and creativity abilities
- ✧ Foster entrepreneurship, students’ “can-do” spirit and innovation
- ✧ Increase undergraduate research participation
- ✧

(3) Engagement and Maximizing Support and Resources (alumni, HK Gov. industry, etc.)

- ✧ Effectively communicate with diverse stakeholders, including students, faculty, staff, alumni, university council, the Senate and HKSAR Government
- ✧ Actively engage the Government with big ideas or causes and explore more support in terms of space and funding, etc.
- ✧ Further serve and strengthen alumni networks in Hong Kong and around the world
- ✧ Drum up philanthropic support, and industry collaborations in supporting HKU
- ✧ Out-reach local communities to make a broader impact and gain public support

(4). Global and Regional Collaborations

- ✧ Strengthen International and mainland China Partnerships
- ✧ Develop in-depth partnerships with world-leading universities in US and UK as well as other universities in Hong Kong and greater China
- ✧ “Proximity” Opportunities in Southern China: (1) high quality medical education/care, (2) business training and MBA, (3) liberal arts education/research collaborations

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