

Early Career Opportunities (China)

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Research landscape in China



● Chinese Academy of Sciences (CAS)

No teaching duties, but with opportunities

❑ Institute of High Energy Physics (Beijing, facilities in other cities)

- BEPC II & BESIII, Daya Bay, JUNO, (CEPC), ...
- Updated to BEPC II-U, under discussion for a further upgrade
- Theory division, also a lattice QCD group

❑ Institute of Modern Physics (Lanzhou & Huizhou)

- Nuclear & heavy ion physics, hadron physics
- HIRFL, HIAF (p beam with kin. energy up to 9.3 GeV; ions), (EicC), ...

❑ Institute of Theoretical Physics

- Particle, hadron, nuclear, cosmology, ..., all kinds of theories



● Universities with big HEP/hadron physics groups

❑ Beijing: Tsinghua Uni., Peking Uni., Uni. of CAS, Beihang Uni.

❑ Hefei: Uni. of Science & Technology of China (STCF)

❑ Jinan & Tsingtao (Qingdao): Shandong Uni.

❑ Shanghai: Fudan Uni., Shanghai Jiao Tong Uni.

❑ Nanjing: Nanjing Uni., Southeast Uni., Nanjing Normal Uni.

...

❑ Lanzhou: Lanzhou Uni.

❑ Wuhan: Central China Normal Uni., Huazhong Uni. of Science & Technology

❑ Guangzhou: South China Normal Uni., Sun Yet-Sen Uni.

...

Funding systems

● National Natural Science Foundation of China (NSFC)

- General funds
- Young Scientists Funds (C -> B -> A, more and more difficult)
 - ✧ Category C: age up to 35 for male and 40 for female
 - ✧ Category B: age up to 38 for male and 40 for female
 - ✧ Category A: age up to 45 for male and 48 for female
- For foreign researchers
 - ✧ Young Scholars: ≤ 6 years after PhD, ≥ 9 months/y in China
 - ✧ Excellent Young Scholars: ≤ 15 years after PhD, ≥ 9 months/y in China, level of full professor
- Fund for international collaboration
 - ✧ Joint grants with funding agencies of some other countries
 - ✧ Grants for international collaborations, projects related to CERN experiments
- Join a strong group for: Key Projects, Innovation Research Groups, ...

● Chinese Academy of Sciences

- Talents projects; Team Projects of Young Scientists; ...
- PIFI visiting scientists: visits of 1 to 6 months, abroad-based postdocs can also apply



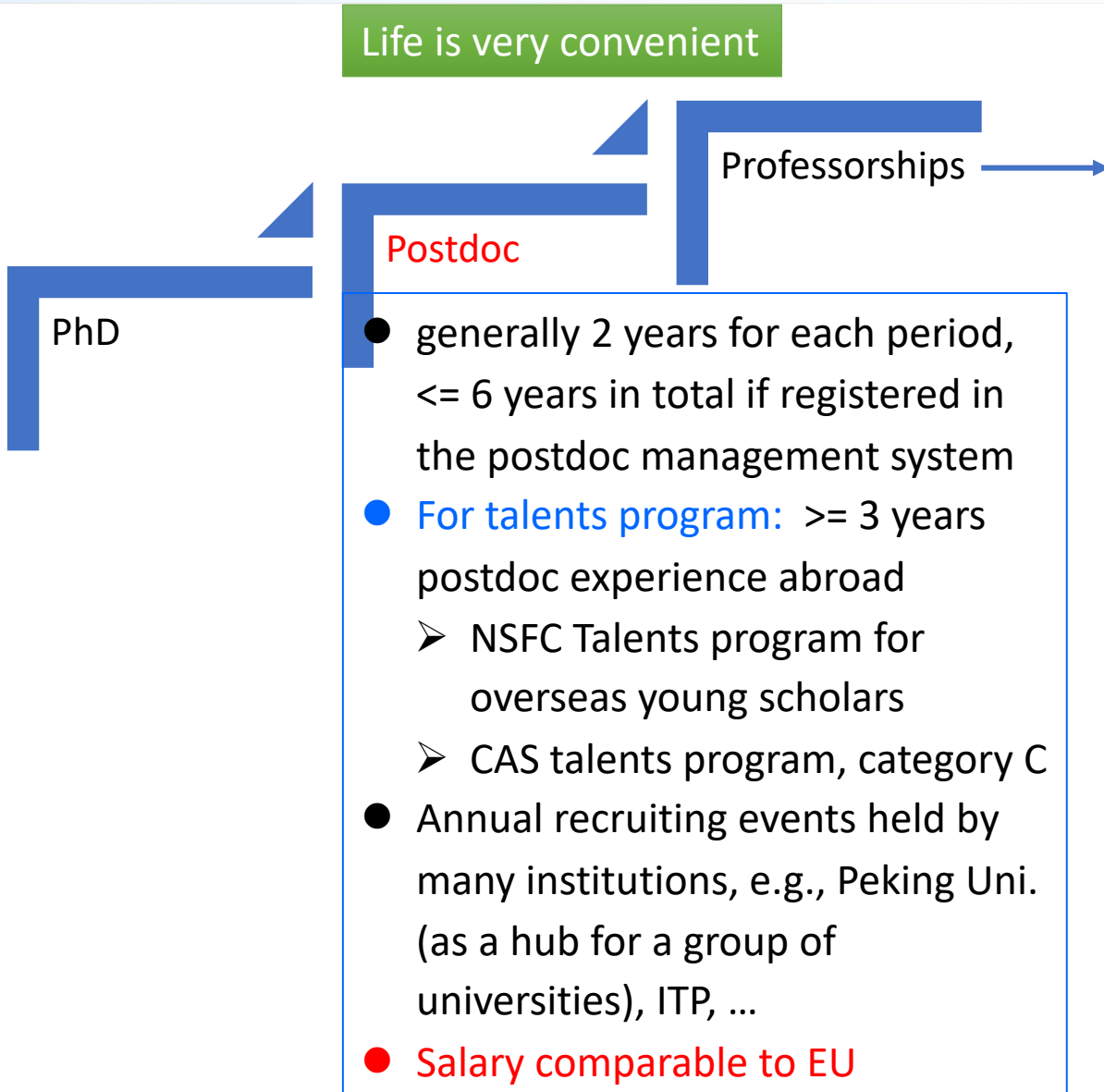
□ Ministry of Science & Technology (MoST) ➤ Young Scientists Projects

Funding systems

- **Provincial science foundations**, taking Guangdong as an example (similar programs in Beijing, ...)
 - Basic and Applied Basic Research Category
 - ✧ Zhujiang River B $\leq$ NSFC Young Scientists Category B: age up to 38 for male and 40 for female
 - ✧ Zhujiang River A $\leq$ NSFC Young Scientists Category A: age up to 45 for male and 48 for female
 - Frontier and Key Technology Innovation Category
 - ✧ semiconductors, artificial intelligence, biomedicine, advanced manufacturing, new energy, new materials
 - Platform, Base and Stable Support Category: for building up a small-scale lab for experiments
- Exchange programs: ANSO (Alliance of National & International Science Organizations for the Belt & Road Regions); provincial exchange programs
- **Funds that postdocs can apply for:**
 - ▣ **China Postdoctoral Science Foundation**
 - General funds: 80k CNY
 - Special funds: 180k CNY
 - National Postdoctoral Research Program (A > B > C; Chinese Nationality)
 - ▣ **NSFC**
 - Postdoc project via special fund for theoretical physics: age ≤ 35
 - ▣ There were also CAS PIFI postdoc projects, but currently not available

Find a group you want to join, ask for regional funding opportunities

Career pathways: opportunities & challenges



- Many universities now adopt to tenure track systems, generally 3 to 6 years before tenured
 - **Often requirements (highly university dependent)** for
 - ❑ getting grant at the national level (NSFC Young Scientist Funds C, general fund, regional fund [for less advanced regions] etc.)
 - ❑ Publishing certain number of papers in a list of certain journals (list depending on the universities)
 - **Can be hard in top universities**, more secure if getting grants at the level of Young Scientist Funds B & A
- Associate professorship (3 levels)
- Full professorship (4 levels)

If you're interested in joining a group for a postdoc, just contact the professors; there might not be advertisements