

CERN forum on IHEP career  
opportunities

## **The Dongguan Branch**

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# Introduction -- Where we are



- The China Spallation Neutron Source (CSNS) is located at the Guangdong-Hong Kong-Macao greater bay area, which is the most economically developed region in China.
- About 50km, 90km and 120km to Shenzhen, Hongkong and Guangzhou

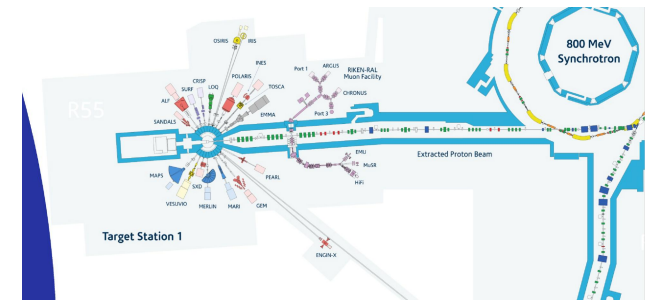
# Operation and development of an accelerator-driven pulsed spallation neutron source facility



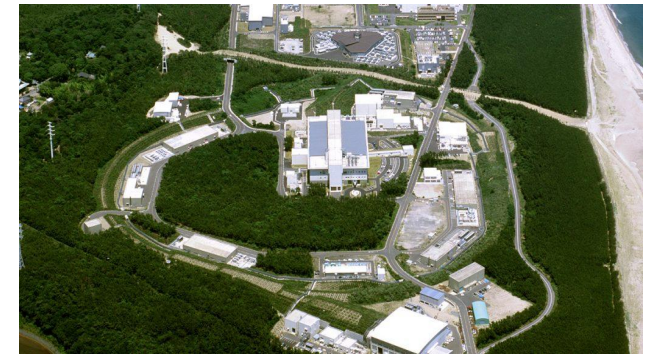
China Spallation Neutron Source



SNS, Oak Ridge, USA

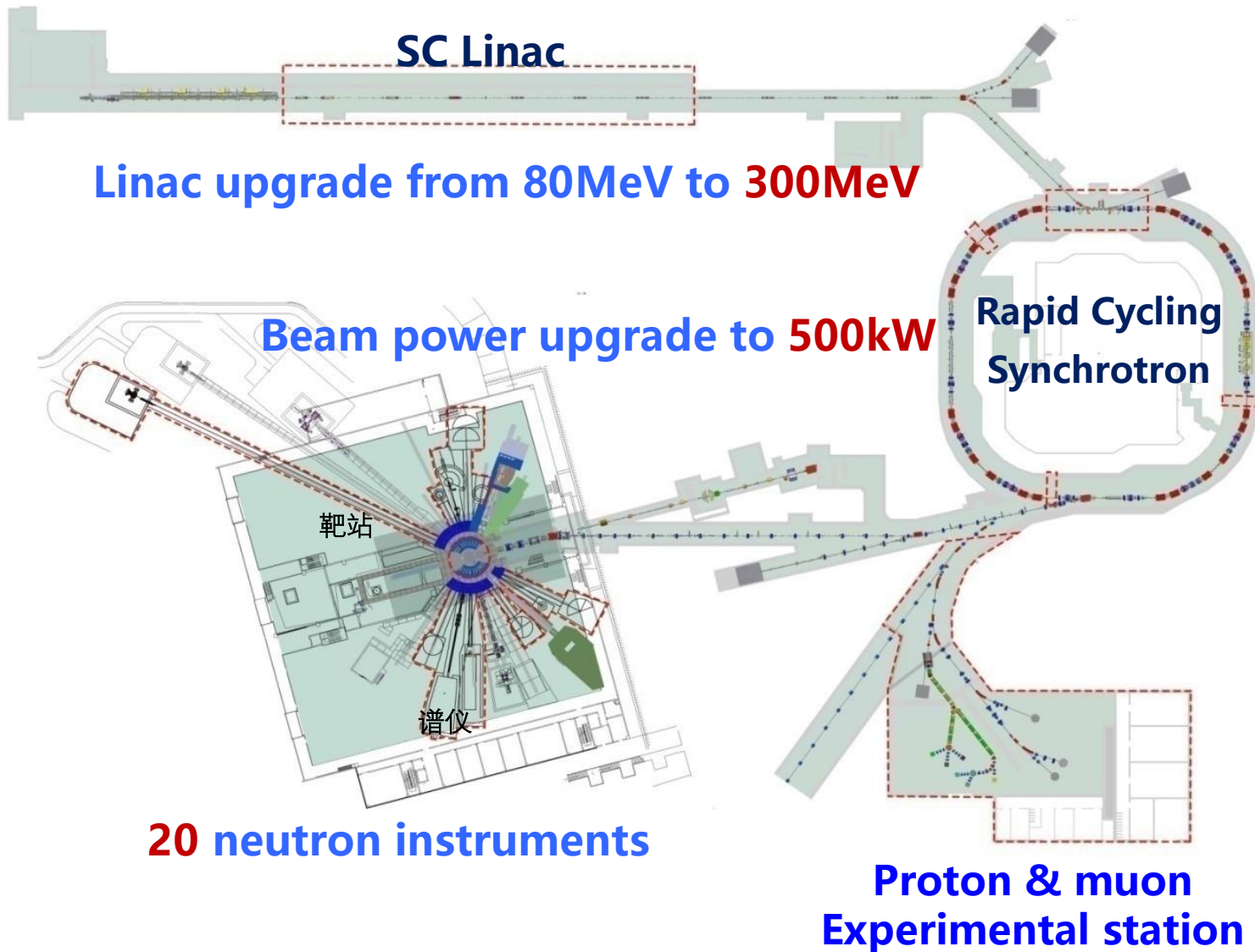


ISIS, Rutherford, UK



J-Parc, Tokai, Japan

# China Spallation Neutron Source Phase I (2011.8-2018.3) and Phase II (2024.1-2029.10)



	CSNS	CSNS-II
Beam power (kW)	100	500
Rep. rate (Hz)	25	25
Target number	1	1
Average beam current ( $\mu\text{A}$ )	62.5	312
Proton beam energy (GeV)	1.6	1.6
RCS injection beam energy (MeV)	80	300
Number of Spectrometers	3	11+8

# the Southern Advanced Photon Source (SAPS)

- The 4<sup>th</sup> generation medium-energy (3.5GeV) diffraction-limited storage ring
- Attosecond coherent pulses Embedded with SAPS
- SAPS will be located next to CSNS (Neutron technique + X-ray technique)
- SAPS research and test platform finished
- R&D on key techniques
- Stage CD0

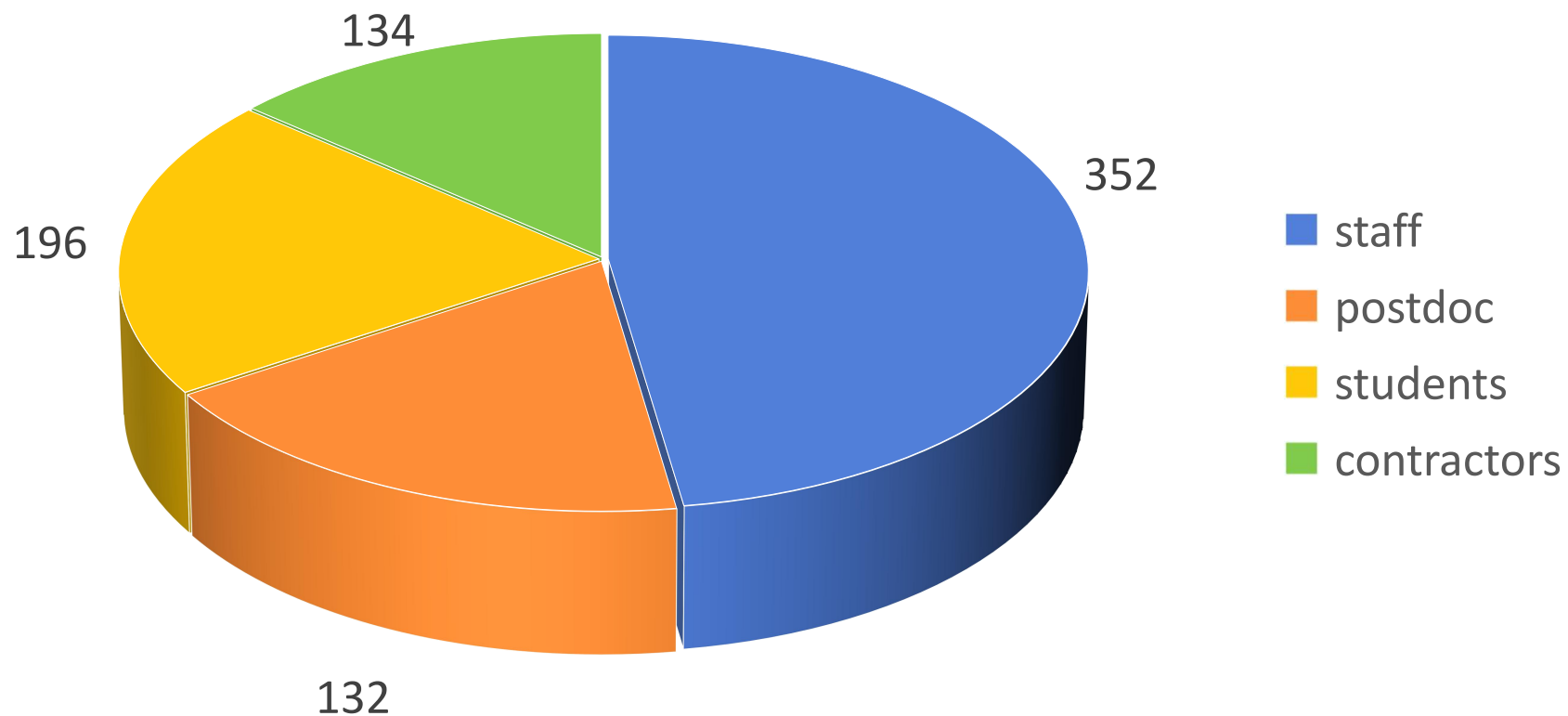


□ **Number of Personnel: 814**

□ **Average age: 38**

□ **Ph.D: 49%; MSc.: 47%**

### Personnel Structure of CSNS



**Recruiting Website: <http://english.ihep.cas.cn/ju/jo>**

# Job Opportunities

## **Particle accelerator**

- ❑ **Linac & synchrotron**
- ❑ **Accelerator physics**
- ❑ **Magnet & Power supply**
- ❑ **Beam instrumentation**
- ❑ **Radio frequency**
- ❑ **Mechanics & Alignment**
- ❑ **Vacuum**
- ❑ **Radiation safety**

## **Neutron Sci. & Tech.**

- ❑ **Neutron Physics**
- ❑ **Neutron instrumentation**
- ❑ **Neutron scattering data analysis**
- ❑ **Neutron detector & electronics**
- ❑ **Neutron related R&D**

## **X-ray Sci. & Tech.**

- ❑ **X-ray instrumentation**
- ❑ **X-ray Optics**
- ❑ **X-ray related R&D**

**Recruiting Website: <http://english.ihep.cas.cn/ju/jo>**

# Benefits and opportunities

## ✓ Senior research staff

- Internationally Competitive compensation
- **Position tailored to staff's experience**
- Abundant research start-up funds

## ✓ General research positions

- Competitive compensation
- Competitive housing plans, Child education
- Medical, Social security etc.

## ✓ Post-Doctoral Fellow

- Offer a two-year contract

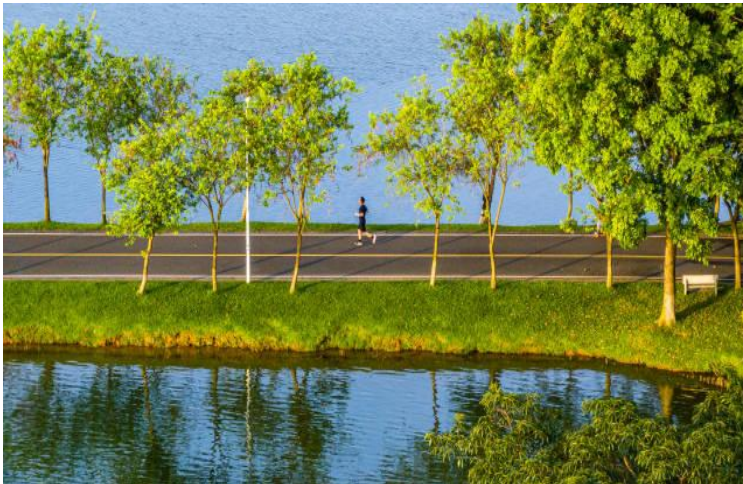




# Working here



# Living here



**CSNS: Phase I (In operation)**

**Phase II (CD4, Jan. 2024 - Oct. 2029)**

**SAPS: CD0**



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