Institute of High Energy Physics, Chinese Academy of Sciences

Recruitment of Overseas High-level Talents

Name of Programs:

- National "Thousand Talents Program" (long term & short term programs)
- National "Thousand Young Talents Program"
- "Hundred Talents Program"(overseas outstanding talents) of Chinese Academy of Sciences
- "Outstanding Talents Program" of Institute of High Energy Physics, Chinese Academy of Sciences

Recruitment Objectives:

Based on the needs of the research areas and the disciplines development of the Institute of High Energy Physics Chinese Academy of Sciences (hereafter referred to as "IHEP CAS", we are now publicly recruiting overseas outstanding talents and scholars of relevant disciplines who possess research abilities and innovation awareness.

Research Directions

1. National "Thousand Talents Program"

Department	Discipline	Research Directions
Division for Experimental Physics	Particle Physics and Nuclear Physics	R&D of advanced particle detectors
	Nuclear Technology and Applications	nuclear electronics
Division for Accelerators	Particle Physics and Nuclear Physics	accelerator physics
	Nuclear Technology and Applications	accelerator technology (including magnet power, high-frequency microwave, vacuum, control, beam measurement, radiation protection, power source, magnets and mechanical technology)
Division for Particle Astrophysics	Particle Physics and Nuclear Physics Astronomy and Astrophysics	cosmic ray physics (including high-energy Gamma-ray astronomy), cosmic ray detection technology
		theory and observations of high-energy astrophysics (including compact stars, Gamma ray burst, active galactic nuclei) , space astronomical instruments (including detectors,

		electronics, and X-ray optics)
Division for Theoretical Physics	Theoretical Physics	particle physics, nuclear physics, cosmology, astronomy, and accelerator-based light source physics (preferably Higgs physics and other TeV high-energy physics
Center for Multi-disciplinary Research	Nuclear Technology and Application	synchrotron radiation beam line and experiment techniques
	Biochemistry and Molecular Biology Biophysics	relationship of protein structure and function
Center for Nuclear Technology Application and Research	Nuclear Technology and Applications	molecular imaging, medical physics

2. National "Thousand Young Talents Program"

Department	Discipline	Research Directions
Division for Experimental Physics	Particle Physics and Nuclear Physics	pixel detector, offline software, trigger and data acquisition, event reconstruction, data processing, electronics in particle physics experiments
	Nuclear Technology and Application	ASIC, radiation-hard devices
Division for Accelerators	Particle Physics and Nuclear Physics	accelerator physics
	Nuclear Technology and Applications	accelerator technology (including magnet power, high-frequency microwave, vacuum, control, beam measurement, radiation protection, power source, magnets and mechanical technology)
Division for Particle Astrophysics	Particle Physics and Nuclear Physics Astronomy and Astrophysics	cosmic ray physics (including high-energy Gamma-ray astronomy), cosmic ray detection technology
		theory and observations of high-energy astrophysics (including compact stars, Gamma ray burst, active galactic nuclei) , space astronomical instruments (including detectors, electronics, and X-ray optics)
Division for Theoretical Physics	Theoretical Physics	particle physics, nuclear physics, cosmology, astronomy, and accelerator-based light source physics (preferably Higgs physics and other TeV high-energy physics)

Center for Multi-disciplinary Research	Bioinorganic Chemistry and Environmental Chemistry	Typical pollutants' environmental behavior and toxicology, Metallomics
	Nuclear Technology and Application	synchrotron radiation beam line and experiment techniques
Center for Nuclear Technology Application and Research	Nuclear Technology and Application	medical imaging (nuclear detection technology, nuclear spectroscopy, nuclear electronics technology, image processing, image reconstruction algorithm) application accelerator (accelerator technology)

3. CAS "Hundred Talents Program"

Department	Discipline	Research Directions
Division for Experimental Physics	Particle Physics and Nuclear Physics	particle physics experiment (detectors R&D, offline software and physical analysis)
	Nuclear Technology and Applications	nuclear electronics
Division for Accelerators	Particle Physics and Nuclear Physics	accelerator physics
	Nuclear Technology and Applications	accelerator technology (including magnet power, high-frequency microwave, vacuum, control, beam measurement, radiation protection, power source, magnets and mechanical technology)
Division for Accelerators	Nuclear Technology and Applications	accelerator physics, accelerator technology, high intensity proton accelerator technology, low-temperature superconducting technology
Division for Particle Astrophysics	Particle Physics and Nuclear Physics Astronomy and Astrophysics	cosmic ray physics (including high-energy gamma-ray astronomy), cosmic ray detection technology
		theory and observations of high-energy astrophysics (including compact stars, Gamma ray burst, active galactic nuclei) , space astronomical instruments (including detectors, electronics, and X-ray optics)
Division for Theoretical Physics	Theoretical Physics	particle physics, nuclear physics, cosmology, astronomy, and accelerator-based light source physics (preferably Higgs physics and other TeV high-energy physics)
Center for Multi-disciplinary Research	Bioinorganic Chemistry and Environmental Chemistry	typical pollutants environmental behavior and toxicology, Metallomics

	Biochemistry and Molecular Biology Biophysics	relationship of protein structure and function
	Nano-biology and Nanomedicine	The interaction between nano-materials and organism, the application of nano-materials in cancer diagnosis and treatment
	Condensed Matter Physics, Materials Science	new nano-material synthesis, modification, characterization and application of nano-materials, nuclear structural materials radiation damage effects
	Nuclear Technology and Applications	synchrotron radiation beam lines and experiment techniques
	Optics	construction and application of infrared free electron laser FEL stations
Computing Center	Computer Application Technology	computer software and theory, distributed computing, network technology
Center for Nuclear Technology Application and Research	Nuclear Technology and Applications	medical imaging (nuclear detection technology, nuclear spectroscopy, nuclear electronics technology, image processing, image reconstruction algorithm) application accelerator (accelerator technology)

4. IHEP “Outstanding Talents Program”

Department	Discipline	Research Directions
Division for Experimental Physics	Particle Physics and Nuclear Physics	pixel detector, offline software, trigger and data acquisition, event reconstruction, data processing, electronics in particle physics experiments
	Nuclear Technology and Applications	ASIC, radiation-hard devices, sensors and monitoring devices
Division for Accelerators	Particle Physics and Nuclear Physics	accelerator physics
	Nuclear Technology and Applications	accelerator technology (including magnet power, high-frequency microwave, vacuum, control, beam measurement, radiation protection, power source, magnets and mechanical technology)
Division for Particle Astrophysics	Particle Physics and Nuclear Physics Astronomy and	cosmic ray physics (including high-energy gamma-ray astronomy), cosmic ray detection technology

	Astrophysics	theory and observations of high-energy astrophysics (including compact stars, Gamma ray burst, active galactic nuclei) , space astronomical instruments (including detectors, electronics, and X-ray optics)
Division for Theoretical Physics	Theoretical Physics	particle physics, nuclear physics, cosmology, astronomy, and accelerator-based light source physics (preferably Higgs physics and other TeV high-energy physics)
Center for Multi-disciplinary Research	Condensed Matter Physics, Materials Science	radiation damage effects of nuclear structural materials
	Bioinorganic Chemistry and Environmental Chemistry	typical pollutants' environmental behavior and toxicology, Metallomics
	Nuclear Technology and Applications	synchrotron radiation beam lines and experiment techniques
Center for Nuclear Technology Application and Research	Nuclear Technology and Applications	medical imaging (nuclear detection technology, nuclear spectroscopy, nuclear electronics technology, image processing, image reconstruction algorithm) application accelerator (accelerator technology)

Qualifications

1. National "Thousand Talents Program"

- The applicant should be under the age of 50 in principle, but the age limit can be extended to 55 for extremely urgent positions;
- Ph.D. degree from an overseas university or institution;
- Be an expert or scholar taking a position equivalent to professorship at a prestigious overseas university or research institute;
- For the long-term program of "Thousand Talents Program", the candidate must ensure the annual work time to be no less than nine months from the second year of employment;
- For short-term of "Thousand Talents Program", the candidate must have clear and specific job objectives and tasks and be able to make tangible contributions; Sign labor contract with the employer for no less than three consecutive years and can work in China for no less than two months each year, and can define the ownership of the relevant work results and intellectual property right during the contract period.

2. National "Thousand Young Talents Program"

- The applicant should be under the age of 40 ;
- A Ph.D. degree from a prestigious university overseas, and have more than three years of research experience abroad; or obtained a Ph.D. degree in China and have more than five years' teaching or research experience overseas (exceptions may be made to extraordinarily excellent applicants)
- Take a formal teaching or research post in a prestigious overseas university, research institute or R&D department of a famous enterprise before coming back (coming) to China;
- In addition, exceptions may be made to newly graduated Ph.D. students who have made remarkable achievements during their Ph.D. period or talents who have achieved outstanding results.

3. CAS "Hundred Talents Program"

- Under the age of 40, the age limit can be extended to 45 for extraordinarily excellent applicant;
- Four consecutive years' experience in overseas scientific researches after receiving a Ph.D. degree;
- Reach the academic level of a Research Fellow(equivalent to a full professor in a research university);
- Having published significant articles on core publications, or mastered key technologies, or owned major invention patents etc.

4. IHEP "Outstanding Talents Program"

- Ph.D. degree and more than five years' research experience;
- Being an postdoctoral/assistant professor or above, under the age of 40; Being an associate professor or above and under the age of 45;
- The requirements are subject to adjustments for outstanding engineering technology talents.

Benefits and Welfares

1. National "Thousand Talents Program"

（1） Appointed as the corresponding senior professional & technical post and project leader;

（2） Competitive salaries and benefits;

（3） Proper medical care ;

（4） Enrolled candidate will be awarded a one-time subsidy of RMB 1 million Yuan;

（5） Sufficient research fund during the employment period;

（6） RMB 2 million Yuan special fund support offered by Chinese Academy of Sciences;

（7） Adequate laboratory space and state-of-the-art devices and equipments;

（8） Support for research team recruitment, match the hundred talent program quota in the team;

（9） Priority to Ph.D. student quota;

（10） Assist in solving such matters as the enrolled candidate's children's education (including kindergarten) and spouse's work relocation;

（11） Settling-in allowance and turnover housing;

2. National "Thousand Young Talents Program"& CAS "Hundred Talents Program"

（1） Appointed as the corresponding senior professional & technical post and project leader;

（2） Competitive salaries and benefits;

（3） Basic construction fee of RMB600,000 Yuan (For enrolled candidate of "Thousand Young Talents Program",including the one-time subsidy of RMB500,000 Yuan offered by Thousand Young Talents Program);

（4） RMB2 million Yuan plus research fund (RMB2 million to RMB2.7 million Yuan for candidate of "Hundred Talents Program", RMB2 million to RMB3 million for candidate of "Thousand Young Talents Program");

（5） Eligible candidate can directly get the outstanding young talent fund from CAS High Energy Institute;

（6） Adequate laboratory space and state-of-the-art devices and equipments;

（7） Assist in solving such matters as the enrolled candidate's children's education (including kindergarten) and spouse's work relocation;

（8） Settling-in allowance and turnover housing.

3. IHEP "Outstanding Talents Program"

（1） Appointed as the corresponding senior professional & technical post and project leader;

（2） Competitive salaries and benefits;

（3） Research start-up fund;

（4） Eligible candidate can apply for the outstanding young talents fund of IHEP;

（5） Assist in solving such matters as the enrolled candidate's children's education (including kindergarten) and spouse's work relocation;

（6） Settling-in allowance and turnover housing

How to Apply

1. Personal resumes (one in English and one in Chinese preferred)
2. Three letters of recommendation by renowned experts of the field (referees may send the electronic version of the letters of recommendation with their signature to the contact email provided below); At least three renowned overseas referees are required for applicants of National “Thousand Talents Program”/“Thousand Young Talents Program”
3. *Chinese Academy of Sciences’ “Overseas Outstanding Talents” Candidate Recommendation (Self-recommendation) Form* or *Institute of High Energy Physics’ Outstanding Talent Candidate Recommendation (Self-recommendation) Form*

   If you are interested, please send your application materials in electronic files to the contacts provided below (please indicate on the subject of the email as: name+job category+where you’ve obtained the job information)

Contact

Ms. Wenli Zheng, Division for Human Resources, Institute of High Energy Physics, Chinese Academy of Sciences

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