

International Postdoctoral Position Descriptions

Reporting Unit: _Beijing Jingwa Agricultural Science & Technology Innovation Center_____ Date: December 17,2025

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No.	Discipline(s)	Postdoctoral Research Position(s)	Primary Research Focus	Number of Positions & Duration	About the Principal Investigator (PI) and Research Team	Required Qualifications & Eligibility Criteria	Benefits and Support	Application Procedures
1	Agriculture (Primary Discipline)/Zoology (Secondary Discipline)	Postdoctoral Research Position/Senior Project Manager	1. Research Focus: Comprehensive study of the dairy industry chain; 2. Core Content: Conducting research on precision nutrition for dairy cows, low-carbon emission reduction, digital farm construction, breeding and reproduction, functional dairy products, and other	1-2 people, with the duration determined by the progress of the research project (1-6 years).	1. Su Xiaou. Chief Scientist of Jingwa Center Concept Validation Platform, Vice Chairman of China Feed Industry Standardization Technical Committee, and Reviewer of China Laboratory Accreditation	1. Age generally not exceeding 40 years old; 2. Majors related to animal science, animal nutrition, feed science, or animal breeding; 3. Published at least one related research paper as the first author in an SCI journal; 4. Possess good English listening, speaking, reading, and writing skills, and be able to independently conduct scientific research; 5. Comply with China's laws and	1. Annual salary of 450,000-600,000 RMB (including national and local subsidies); 2. Provision of 200,000 RMB for research start-up funding; 3. Allocation of laboratory space and required equipment; 4. Assistance with visa processing, accommodation, file acceptance, household registration, and other related matters. The spouse and minor children of	Submit your application materials to the organization's email address yanghua@jingwacenter.com The unit organizes interviews and reviews the research proposal; upon approval, the candidate is admitted.

			aspects of the dairy industry chain.		Committee. 2. Zhu Jie. Chief Scientist of Center for Biological Breeding and Distinguished Advisor of Zhongguancun Academy of Agricultural Sciences.	regulations as well as the unit's rules and regulations; 6. Have an interest in learning Chinese; 7. Comply with China's laws and regulations as well as the unit's rules and regulations; 8. Graduated from a university ranked in the top 300 in QS World University Rankings / THE World University Rankings / ARWU Academic Ranking of World Universities in the past three years (based on the application year) is preferred.	postdoctoral fellows may relocate and settle together upon completion of the postdoctoral program.	
2	Agriculture (Primary Discipline) / Horticulture (Secondary Discipline)	Postdoctoral Research Position in Fruit and Vegetable Breeding	1. Research Focus: Integrated Germplasm Innovation, Breeding, and Extension for Fruit and Vegetable	1 person, 1-3 years (depending on the progress of the research)	With the support of Jingwa Center's facility horticulture innovation	1. Age generally not exceeding 40 years old; 2. Passion and interest in industry-university-research collaboration; 3. Relevant background	1. Annual salary of 450,000-600,000 RMB (including national and local subsidies); 2. Provision of 200,000 RMB for research start-up funding; 3. Assistance with visa	Submit your application materials to the organization's email address yanghua@jingwacenter.com The unit

			<p>Crops (e.g., Tomatoes, Strawberries, etc.).</p> <p>2. Core Content: Establish a core germplasm resource bank and a phenotype-genotype database; conduct genetic analysis and molecular marker development for important traits (stress resistance, disease resistance, quality); establish a molecular design/marker-assisted selection and rapid evaluation process; develop supporting seed production and healthy seedling factory technologies to form a practical</p>	project)	<p>team, in collaboration with universities/research institutes and corporate breeding teams, it possesses the capability for multi-site trials and industrial validation.</p>	<p>in horticulture, genetics, molecular biology, bioinformatics, etc.;</p> <p>4. Independent research capability and paper writing ability, with at least one related research paper published as the first author in an SCI journal; 5. Good English listening, speaking, reading, and writing skills; 6. Interest in learning Chinese; 7. Compliance with China's laws and regulations as well as the unit's rules and regulations; 8. Graduated from a university ranked in the top 300 in QS World University</p>	<p>processing, accommodation, file acceptance, household registration, and other related matters. The spouse and minor children of postdoctoral fellows may relocate together upon completion of the postdoctoral program.</p>	<p>organizes interviews and reviews the research proposal; upon approval, the candidate is admitted.</p>
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			variety screening and validation protocol.			Rankings / THE World University Rankings / ARWU Academic Ranking of World Universities in the past three years (as of the application year) is preferred.		
3	Engineering/Agricultural Mechanization Engineering	Postdoctoral Research Position in Horticultural Equipment and Automation	<p>Research focus: Horticultural labor-saving equipment and operation systems for enhancing unit labor productivity.</p> <p>Core content: Conduct process reengineering and equipment selection/modification for key stages including seedling cultivation, transplantation, pruning and fruit</p>	1 person, 1-3 years (depending on the progress of the research project)	Leveraging Jingwa Center's demonstration park and industrial collaboration network, we collaborate with equipment manufacturers and greenhouse operators to conduct equipment	<p>1. Age generally not exceeding 40 years old; 2. Passion and interest in industry-university-research collaboration; 3. Relevant background in mechanical design, mechatronics, robotics/automation, etc.; 4. Independent research capability and paper writing ability, with at least one related research paper published as the first author in an</p>	<p>1. Annual salary of 450,000-600,000 RMB (including national and local subsidies); 2. Provision of 200,000 RMB research start-up funding upon approval of the research proposal; 3. Assistance with visa processing, accommodation arrangements, and children's education matters.</p>	<p>Submit your application materials to the organization's email address yanghua@jingwacenter.com</p> <p>The unit organizes interviews and reviews the research proposal; upon approval, the candidate is admitted.</p>

			<p>thinning, harvesting, and transportation in facility horticulture and fruit tree cultivation; develop operational path planning and human-machine collaborative workflows for greenhouses and orchards; establish a system for evaluating operational efficiency, labor intensity, and cost accounting; conduct scenario-based validation in demonstration orchards and deliver replicable technical solutions.</p>		<p>integration, testing, and demonstration projects.</p>	<p>SCI journal; 5. Good English listening, speaking, reading, and writing skills; 6. Interest in learning Chinese; 7. Compliance with China's laws and regulations as well as the unit's rules and regulations; 8. Ranked in the top 300 in any of the QS World University Rankings / THE World University Rankings / ARWU Academic Ranking of World Universities in the past three years (based on the application year).</p>		
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4	Engineering/Information and Control	PhD Postdoctoral Research Position in Phenotype Perception and Intelligent Greenhouse Control Model	<p>Research focus: Phenotype-aware intelligent greenhouse control and data standardization.</p> <p>Core content: Establish a closed-loop data system for "environment-phenotype-yield quality"; integrate multi-source sensing (meteorology/energy consumption/water and fertilizer/phenotype images) with mechanism/data-driven models; develop key strategies and interpretable control</p>	1 person, 1-3 years (depending on the progress of the research project)	The Jingwa Center's facility-based horticultural innovation team collaborates with university algorithm teams and industry partners to conduct joint training programs.	<p>1. Age generally not exceeding 40 years old; 2. Passion and interest in industry-university-research collaboration; 3. Relevant background in control engineering, computer science, data science, agricultural engineering, etc.; 4. Independent research capability and paper writing ability, with at least one related research paper published as the first author in an SCI journal; 5. Good English listening, speaking, reading, and writing skills; 6. Interest in learning Chinese; 7.</p>	<p>1. Annual salary of 450,000-600,000 RMB (including national and local subsidies); 2. Provision of 200,000 RMB research start-up funding upon approval of the research proposal; 3. Assistance with visa processing, accommodation arrangements, and children's education matters.</p>	<p>Submit your application materials to the organization's email address yanghua@jingwacenter.com</p> <p>The unit organizes interviews and reviews the research proposal; upon approval, the candidate is admitted.</p>
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			algorithms.			Compliance with China's laws and regulations as well as the unit's rules and regulations; 8. Ranked in the top 300 in any of the QS World University Rankings / THE World University Rankings / ARWU Academic Ranking of World Universities in the past three years (based on the application year).		
5	Agriculture/Utilization of Agricultural Environment and Resources	Postdoctoral Research Position on Plant Resilience Production and Low-carbon Environmental Management under Climate	Research focus: Addressing the challenges of crop production instability under climate change by developing resilient production technologies and	1 person, 1-3 years (depending on the progress of the research project)	Through the Jingwa Center demonstration park and its environmental management team, coordinated efforts	1. Age generally not exceeding 40 years old; 2. Passion and interest in industry-university-research collaboration; 3. Relevant background in environmental science, agricultural	1. Annual salary of 450,000-600,000 RMB (including national and local subsidies); 2. Provision of 200,000 RMB research start-up funding upon approval of the	Submit your application materials to the organization's email address yanghua@jingwacenter.com The unit organizes interviews and

		Change	<p>low-carbon management practices.</p> <p>Core content: Construct scenario libraries (e.g., heatwaves, cold waves, prolonged overcast days) and risk indicators at different scales of climate change; investigate the mechanisms by which environmental regulation strategies affect stable production and quality; establish accounting boundaries for energy consumption and carbon emissions, itemized measurement, and</p>		<p>between government and enterprises are made to conduct demonstration and evaluation.</p>	<p>resources and environment, energy systems, or facility horticulture; 4. Independent research capability and paper writing ability, with at least one related research paper published as the first author in an SCI journal; 5. Good English listening, speaking, reading, and writing skills; 6. Interest in learning Chinese; 7. Compliance with China's laws and regulations as well as the unit's rules and regulations; 8. Ranked in the top 300 in any of the QS World University Rankings / THE</p>	<p>research proposal; 3. Assistance with visa processing, accommodation arrangements, and children's education matters.</p>	<p>reviews the research proposal; upon approval, the candidate is admitted.</p>
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			emission reduction pathways; develop technical regulations and demonstration evaluation systems for "resilient production + low-carbon operation".			World University Rankings / ARWU Academic Ranking of World Universities in the past three years (as of the application year).		
6	Horticulture/Food Science and Engineering	Postdoctoral Research Position on Pre-harvest Treatment and Post-harvest Preservation Techniques for Fruits and Vegetables	<p>Research focus: Integrated pre-harvest regulation and post-harvest preservation of fruits and vegetables, with emphasis on quality maintenance.</p> <p>Core content: Investigate the impact of pre-harvest environment, nutritional management, and</p>	1 person, 1-3 years (depending on the progress of the research project)	By leveraging Jingwa Center's greenhouse horticulture and fruit industry demonstration park with its quality inspection capabilities, we collaborate with post-harvest	1. Age generally not exceeding 40 years old; 2. Passion and interest in industry-university-research collaboration; 3. Relevant background in post-harvest physiology, food engineering, horticulture, cold chain engineering, etc.; 4. Independent research capability and paper writing ability, with at least	1. Annual salary of 450,000-600,000 RMB (including national and local subsidies); 2. Provision of 200,000 RMB research start-up funding upon approval of the research proposal; 3. Assistance with visa processing, accommodation arrangements, and children's education matters.	<p>Submit your application materials to the organization's email address yanghua@jingwacenter.com</p> <p>The unit organizes interviews and reviews the research proposal; upon approval, the candidate is admitted.</p>

			<p>green plant protection on storage stability and flavor formation; Develop post-harvest grading, pre-cooling, storage, and preservation protocols (including quantifiable evaluation indicators); Establish loss and quality degradation models; Conduct full-chain validation in fruit demonstration orchards and formulate SOPs and enterprise-applicable process solutions.</p>		<p>technology and cold chain enterprises to jointly advance industrial validation.</p>	<p>one related research paper published as the first author in an SCI journal; 5. Good English listening, speaking, reading, and writing skills; 6. Interest in learning Chinese; 7. Compliance with China's laws and regulations as well as the unit's rules and regulations; 8. Ranked in the top 300 in any of the QS World University Rankings / THE World University Rankings / ARWU Academic Ranking of World Universities in the past three years (based on the application year).</p>		
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7	Biology/Synthetic Biology/Food Science and Engineering	Postdoctoral Research Position in Synthetic Biology and Functional Components Development for Precision Nutrition	<p>Research focus: Functional ingredient manufacturing and precision nutrition applications enabled by synthetic biology.</p> <p>Core content: Conduct biosynthetic pathway design and optimization (substrate microorganisms/enzyme engineering/metabolic pathways) targeting functional factors such as lycopene and GABA, as well as key nutritional components in fruits and vegetables;</p>	1 person, 1-3 years (depending on the progress of the research project)	Building upon the functional fruits and vegetables and standard system-related projects of Jingwa Center, we collaborate with university synthetic biology platforms and corporate R&D teams to establish a "R&D-Validation-Transformation" chain.	<p>1. Age generally not exceeding 40 years old; 2. Passion and interest in industry-academia-research collaboration; 3. Relevant background in synthetic biology, metabolic engineering, biochemical engineering, food science, etc.; 4. Independent research capability and paper writing ability, with at least one related research paper published as the first author in an SCI journal; 5. Good English listening, speaking, reading, and writing skills; 6. Interest in learning Chinese; 7.</p>	<p>1. Annual salary of 450,000-600,000 RMB (including national and local subsidies); 2. Provision of 200,000 RMB research start-up funding upon approval of the research proposal; 3. Assistance with visa processing, accommodation arrangements, and children's education matters.</p>	<p>Submit your application materials to the organization's email address yanghua@jingwacenter.com</p> <p>The unit organizes interviews and reviews the research proposal; upon approval, the candidate is admitted.</p>
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			Establish a fermentation-separation-purification-formulation application evaluation system; Connect with facility cultivation to explore a synergistic pathway of "cultivation quality design + processing application".			Compliance with China's laws and regulations as well as the unit's rules and regulations; 8. Ranked in the top 300 in any of the QS World University Rankings / THE World University Rankings / ARWU Academic Ranking of World Universities in the past three years (based on the application year).		
8	Agriculture (Primary Discipline)/Food (Secondary Discipline)	Postdoctoral Research Position/Senior Project Manager	1. Research Focus: Functional foods, food-as-medicine foods, and applied research in nutrition and health. 2. Core Research Content: Develop functional food and	1-2 people, with the duration determined by the progress of the research	With the support of Jingwa Center's facility horticulture innovation team, in collaboration	1. Age generally not exceeding 40 years old; 2. Majors related to food physics, food chemistry, food microbiology, food quality and safety, food nutrition and health, or functional foods; 3. Published at least one related research paper as the	1. Annual salary of 450,000-600,000 RMB (including national and local subsidies); 2. Provision of 200,000 RMB for research start-up funding; 3. Assistance with visa processing, accommodation, file acceptance, household	Submit your application materials to the organization's email address yanghua@jingwacenter.com The unit organizes interviews and

			<p>elderly-friendly food formulations, conduct pilot and intermediate-scale trials. Perform active ingredient research and product application development for food-as-medicine ingredients. Verify the nutritional efficacy of active ingredients (via in vitro/animal models, etc.). Participate in food processing technology R&D, product iteration, and industrialization implementation. Assist in completing relevant experimental</p>	<p>project (1-6 years).</p>	<p>with universities/research institutes and corporate breeding teams, it possesses the capability for multi-site trials and industrial validation.</p>	<p>first author in an SCI journal; 4. Possess good English listening, speaking, reading, and writing skills, and be able to independently conduct scientific research; 5. Comply with China's laws and regulations as well as the unit's rules and regulations; 6. Have an interest in learning Chinese; 7. Comply with China's laws and regulations as well as the unit's rules and regulations; 8. Graduated from a university ranked in the top 300 in QS World University Rankings / THE World University Rankings / ARWU Academic Ranking of World Universities in the past three years (based on the application year) is preferred.</p>	<p>registration, and other related matters. The spouse and minor children of postdoctoral fellows may relocate together upon completion of the postdoctoral program.</p>	<p>reviews the research proposal; upon approval, the candidate is admitted.</p>
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			analysis, project documentation, and product testing.					
9	Agriculture (Primary Discipline)/Artificial Intelligence (Secondary Discipline)	Postdoctoral Research Position/Senior Project Manager	<p>research area :</p> <p>1. Agricultural multimodal perception and intelligent diagnosis: Fusion of video/image/sensor/time-series data for identification and early warning of pests/diseases, growth status, harvest maturity, and animal health.</p> <p>2. Intelligent Decision-Making and Optimization Control (MPC/RL/Optimization Algorithms): Integrated</p>	1-2 people, with the duration determined by the progress of the research project (1-6 years).	With the support of Jingwa Center's facility horticulture innovation team, in collaboration with universities/research institutes and corporate breeding teams, it possesses the capability for multi-site trials and industrial validation.	<p>1. Age generally not exceeding 40 years old; 2. Major in big data, artificial intelligence, computer science, engineering, or information science-related fields; 3. Published at least one related research paper as the first author in an SCI journal; 4. Possess good English listening, speaking, reading, and writing skills, and be able to independently conduct scientific research; 5. Comply with China's laws and regulations as well as the unit's rules and regulations; 6. Have an interest in learning Chinese; 7. Comply with China's laws and</p>	<p>1. Annual salary of 450,000-600,000 RMB (including national and local subsidies); 2. Provision of 200,000 RMB for research start-up funding; 3. Assistance with visa processing, accommodation, file acceptance, household registration, and other related matters. The spouse and minor children of postdoctoral fellows may relocate together upon completion of the postdoctoral program.</p>	<p>Submit your application materials to the organization's email address yanghua@jingwacenter.com</p> <p>The unit organizes interviews and reviews the research proposal; upon approval, the candidate is admitted.</p>

			<p>greenhouse climate-irrigation-nutrient solution control; Optimization of dairy cow feeding formulations and production scheduling; Path optimization for orchard operations and human-machine collaborative control.</p> <p>3. Agricultural Data Platform and Digital Twin: Unified data standards, indicator systems, and data asset management across the three parks; digital twin and visual cockpit for the park.</p> <p>4. Agricultural Large</p>			<p>regulations as well as the unit's rules and regulations; 8. Graduated from a university ranked in the top 300 in QS World University Rankings / THE World University Rankings / ARWU Academic Ranking of World Universities in the past three years (based on the application year) is preferred.</p>		
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			<p>Models/Knowledge Graphs and Agents: Agricultural SOPs, expert experience, and experimental data are accumulated into a knowledge base; production-oriented question-and- answer systems, inspection routines, alarm explanations, and disposal recommendations are generated.</p>					
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