



南京农业大学

NANJING AGRICULTURAL UNIVERSITY

猪兽医专科发展与人才培养

Development of Pig Veterinary Specialties and Talent Training

第十四届李曼中国养猪大会-养猪业的人力培养

-The 14th Li Man China Pig Breeding Conference: Human Resource Development in the Pig Industry

李曼中国
杨振

南京农业大学动物医学院

2025年10月18日 长沙

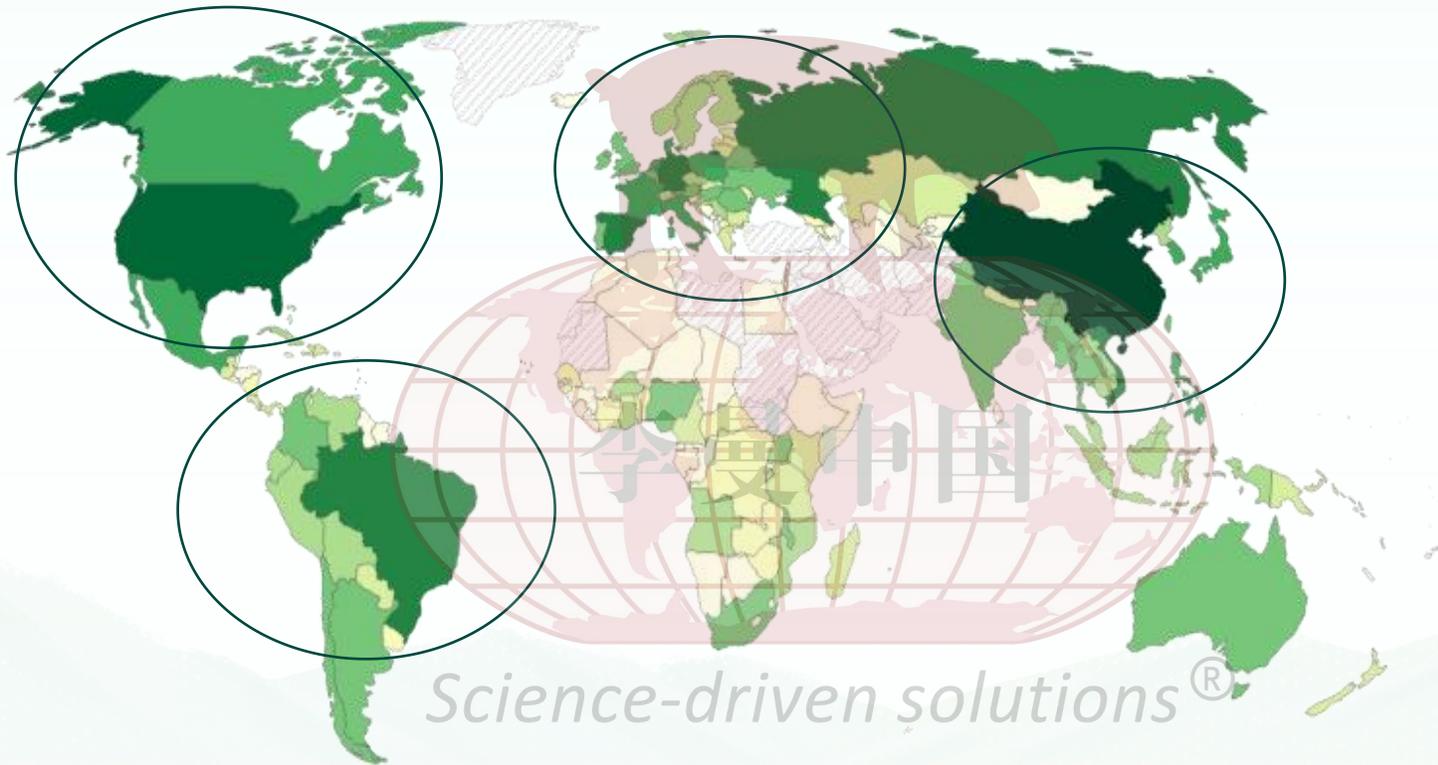
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全球生猪生产主要区域 Global pig production main areas

Pig meat production, 2023

Expressed in tonnes.



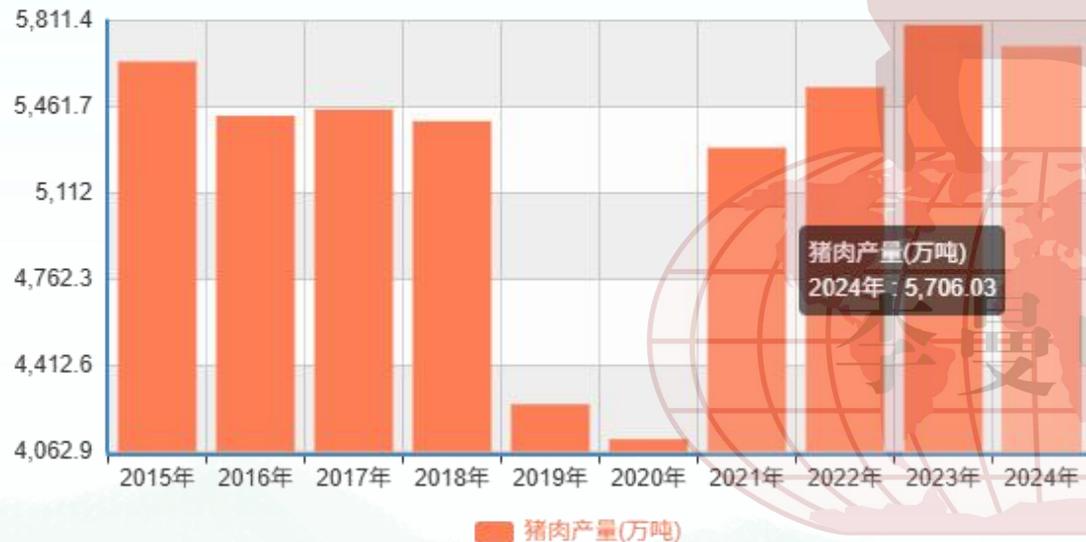
Data source: Food and Agriculture Organization of the United Nations (2025)

OurWorldinData.org/meat-production | CC BY

Note: This refers to total meat production, from both commercial and farm slaughter. Data are given in terms of dressed carcass weight, excluding offal and slaughter fats.

誠 樸 勤 仁

我国生猪行业现状 The current situation of pig industry in China



新猪派

全国历年生猪出栏量

单位: 亿头



扫码关注“新猪派”

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数据截至: 2025年1月17日

数据来源: 新猪派整理、官方发布

新猪派

用数据读懂养猪业

誠樸篤仁

大型企业集中化趋势

Large enterprises are becoming centralized

- ◆ 全球前5大养猪企业中，有3家来自中国
- ◆ Three of the worlds top five pig enterprises are from China
- ◆ 全球前20强企业中，有8家为中国企业
- ◆ Among the worlds top 20 enterprises, 8 are Chinese enterprises
- ◆ 前25家集团企业能繁母猪存栏量达926.9万头，约占全国总量的四分之一
- ◆ The breeding sow stock of the top 25 group enterprises reached 9.269 million, accounting for about a quarter of the national total

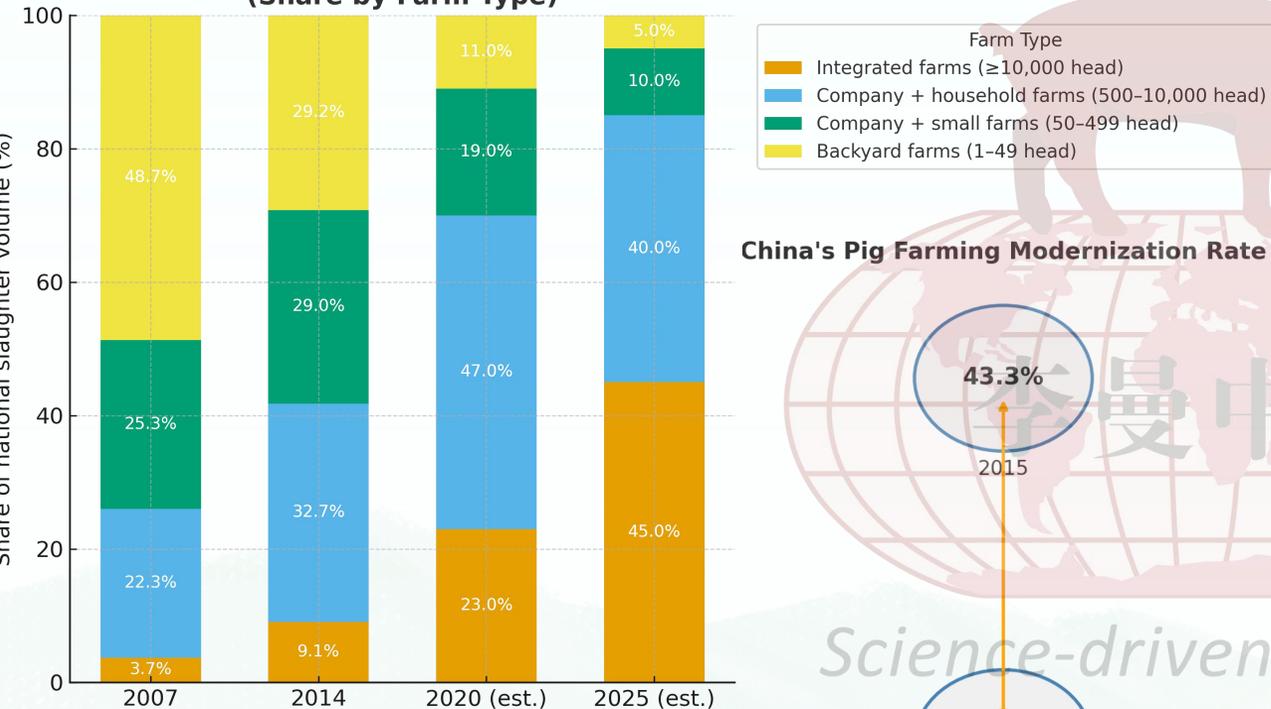
2024年中国养猪企业排行榜 2024 China Mega Producer List					
中国排名 Ranking	养猪企业 MEGA Producer	世界排名 World Ranking	2024母猪存栏 # Sows 2024	2023母猪存栏 # Sows 2023	母猪存栏变化 2024 vs 2023
1	牧原食品 Muyuan Foodstuff Co.,Ltd.	1	3,130,000	2,815,000	315,000
2	温氏集团 Wens Food Group Co.,Ltd.	2	1,570,000	1,400,000	170,000
3	新希望集团 New Hope	4	820,000	850,000	-30,000
4	双胞胎集团 Twins Group	6	550,000	380,000	170,000
5	四川德康集团 Sichuan Dekon Group	11	333,200	450,000	-116,800
6	天邦 Techbank	12	320,000	300,000	20,000
7	中粮集团 COFCO Group	16	250,000	220,000	30,000
8	正邦集团 Zhengbang Group	18	200,000	350,000	-150,000
9	大象农牧 Elephant	21	170,000	170,000	0
10	广西桂垦牧业 Guangxi Gui Ken Animal Husbandry Co., Ltd	23	157,000	125,000	32,000
11	大北农集团 Da Bei Nong	24	153,100	180,000	-26,900
12	福建傲农集团 Fujian Aonong Group	25	150,000	310,000	-160,000
13	扬翔股份 Yangxiang	26	150,000	300,000	-150,000
14	天康生物 Tecon Biology	30	140,000	140,000	0
15	海大集团 Guangdong Haida Group	33	128,000	150,000	-22,000
16	力源集团 Guangxi Liyuan Group	35	120,000	100,000	20,000
17	巨星集团 Giantstar	40	110,000	110,000	0
18	新五丰 New Wellful	41	110,000	105,000	5,000
19	京基智农 Kingkey Smart Agri	42	108,000	108,000	0
20	唐人神集团 Tang Ren Shen (TRS) Group	44	100,000	100,000	0
21	铁骑力士 Sichuan TechLex Group	45	100,000	100,000	0
22	浙江华统 Huatong Shares	46	100,000	100,000	0
23	广东天农 Guandong TINOO	47	100,000	100,000	0
24	武汉金龙 Wuhan Golden Dragon	48	100,000	100,000	0
25	神农集团 Shennong Group	49	100,000	新上榜 New Entry	100,000
合计 Total			9,269,300	9,063,000	206,300

我国养猪行业集约化提升加速

The intensification of China's pig industry is accelerating

大型养猪企业在市场生猪销售中的占比越来越高
Large pig enterprises account for an increasing proportion in the market sales of pigs

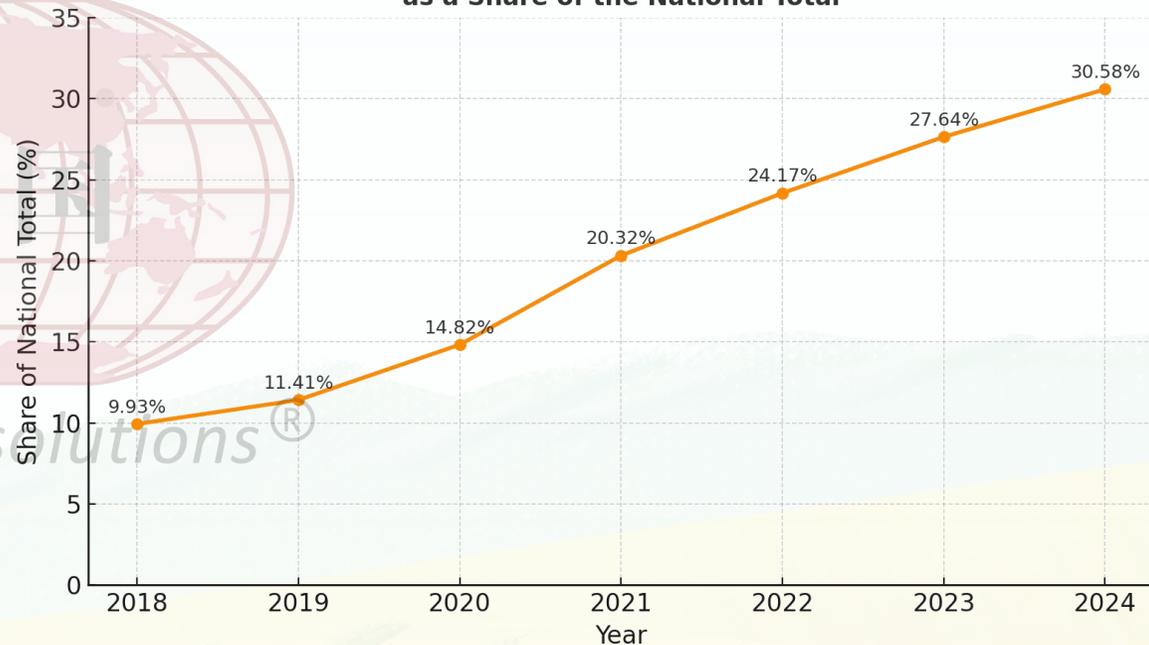
Structural Adjustment of China's Hog Industry Supply (Share by Farm Type)



China's Pig Farming Modernization Rate

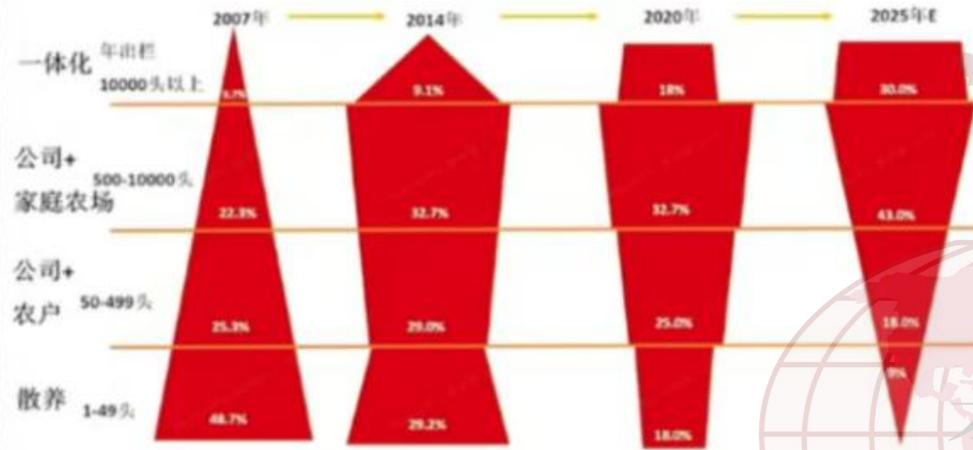


2018-2024 Slaughter Volume of Top 20 Pig Farming Enterprises as a Share of the National Total



我国生猪行业现状 The current situation of pig industry in China

生猪产业供给结构调整



规模养猪企业出栏比重逐年上升
The proportion of pigs produced by large-scale pig enterprises is increasing year by year

2018-2024年TOP20猪企出栏量及占全国比重



中国规模化生猪养殖渗透率



我国生猪行业现状 The current situation of Chinas pig industry



- ◆ 养猪进入存量博弈的微利时代
- ◆ Pig farming has entered an era of low profit and game of existing
- ◆ 未来生猪产业链将形成专业化分工
- ◆ In the future, the pig industry chain will form a specialized division of labor

猪兽医在生猪产业中的关键作用

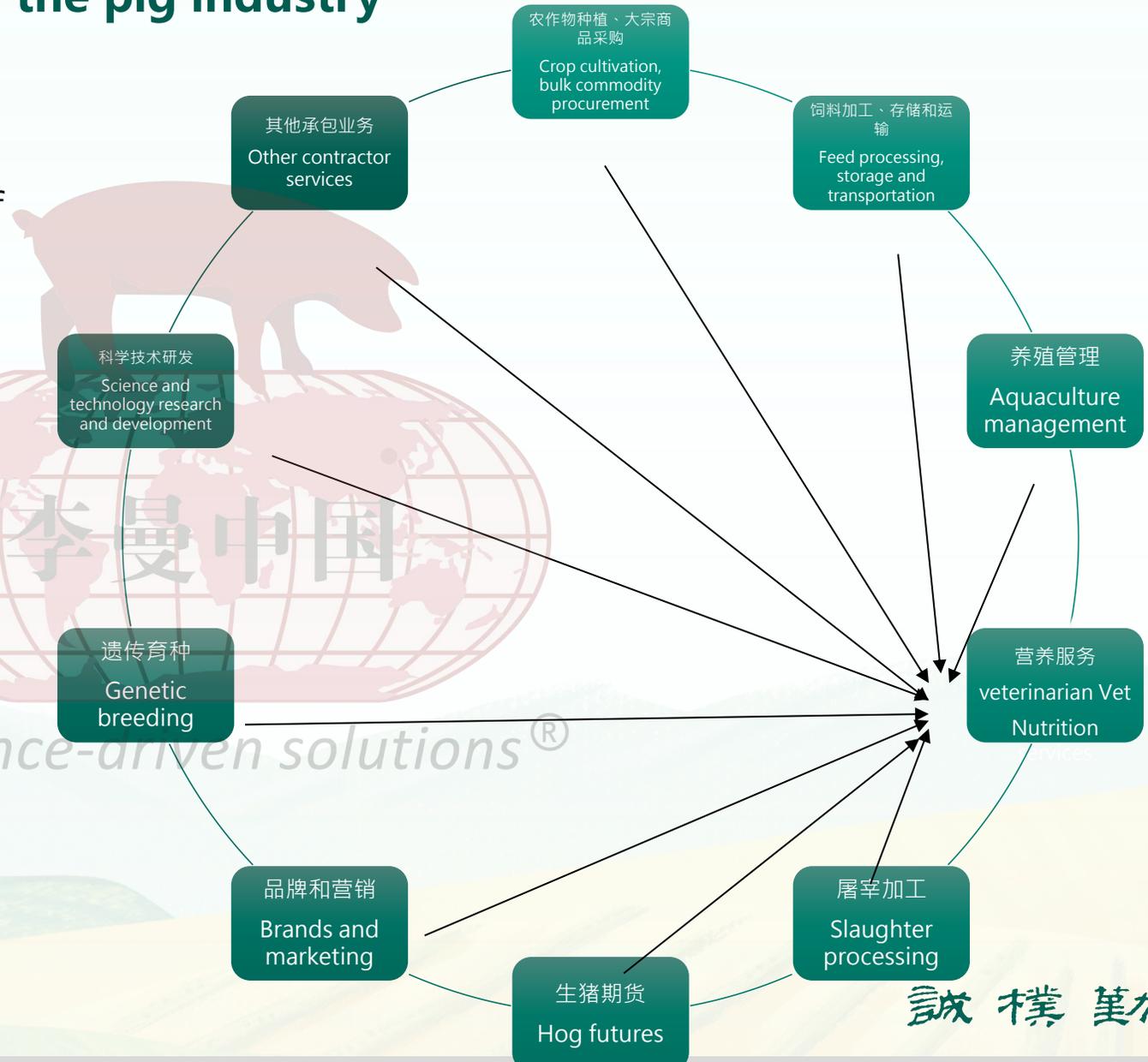
The key role of pig veterinarians in the pig industry

◆ 产业链纵向整合: Vertical integration of the industry chain:

- 从田间到餐桌, 从基因到品牌 From field to table, from gene to brand
 - 举例: 抗生素休药期、疾病净化
Examples: antibiotic withdrawal period, disease purification
- 兽医在产业链中的地位亟需进一步提升
- The status of veterinarians in the industrial chain needs to be further improved

◆ 治疗、预防 -> 疫病防控 -> 生产管理型

◆ Treatment, prevention-> Disease control and prevention-> Production management



我国猪兽医服务对象的变化

Changes in the service objects of pig and veterinary medicine in China

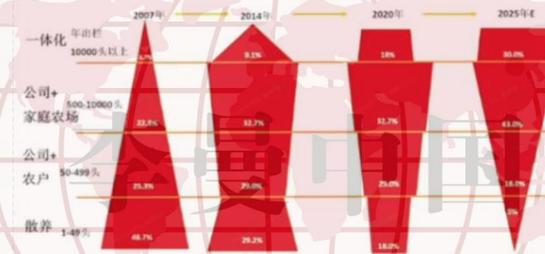
畜牧养殖户/企业

Animal husbandry farmers/enterprises

- 素质提升, 知识储备增加
- Quality improvement, knowledge reserve increase
- 生产和管理部门/环节增多
- Production and management/links increased
- 商业模式各异
- Business models vary
- 决策的经济影响大
- The economic impact of the decision is large
- 数据化管理
- Data-driven management
- 期望值高
- High expectations

养殖场的数量在下降
单个养殖场的规模在升高

生猪产业供给结构调整



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猪兽医 ???

兽医人才需求: 从数量 → 高质量、高水平人才

Veterinary talent demand: from quantity to high-quality and high-level talents

畜禽 Livestock and poultry

- 单位动物的价值相对降低
- The relative value per unit of animal is lower
- 疾病在群体的变化复杂
- The changes in disease in the population are complex
- 生产管理对畜禽影响因素多
- There are many factors affecting production management of livestock and poultry
- 亚健康对生产效能的影响
- The impact of sub-health on production efficiency
- 生物安全和疫病净化难度加大
- Biological safety and disease purification are becoming more difficult

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猪兽医的能力和技能要求

Requirements for the abilities and skills of pig veterinarians

- ◆ “服务食品动物行业的兽医需要具备广博的兽医学背景和在动物生产、动物疾病、生产经济学、系统分析和信息管理方面的知识和技能”
- ◆ "Veterinarians serving the food animal industry need to possess a comprehensive veterinary background, as well as knowledge and skills in animal production, animal diseases, agricultural economics, systems analysis, and information management."

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— Otto M. Radositis DVM, MS, DACVIM

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我国猪兽医人才供需痛点

Pain points in the supply and demand of pig veterinary talents in China

◆ 核心矛盾：结构性失衡 Core contradiction: structural imbalance

- 需求端：规模化养殖催生对复合型专家（懂技术、管理、数据）的需求。Demand side: large-scale breeding has spawned the demand for multi-disciplinary experts (technical, management, data).
- 供给端：高校猪兽医培养成本高，难度大，导致供需错位。Supply side: The high cost and difficulty of training pig and veterinary medicine in colleges and universities lead to the mismatch between supply and demand.

◆ 三大核心痛点 Three core pain points

- Cultivation disconnection: the education is not targeted enough, the practical ability of graduates is weak, and it does not match the needs of modern pig farms.
- 培养脱节：教育针对性不足，毕业生实践能力弱，与现代化猪场需求不匹配。
- Practical fault: The education of advanced masters and doctoral students emphasizes scientific research papers, but neglects practical experience, and students lack high-quality internship opportunities.
- 实践断层：高阶硕博教育重科研论文、轻一线实战，学生缺乏高质量实习机会。
- No access to further study: in-service masters/doctoral programs are scarce and out of line with the actual clinical needs of pigs, and enterprises also lack the ability and willingness to systematically train high-level pig veterinarians.
- 深造无门：在职硕士/博士项目稀缺且与猪临床实际需求脱节，企业也缺乏系统培养高水平猪兽医能力与意愿。

中美猪兽医培养模式比较 – 猪兽医专科建设的必要性

Comparison of pig veterinary training models between China and the United States - the necessity of building a pig veterinary specialty

中国

本科教育
兽医学, 4-5年
其他专业, 4年

学术型硕士
兽医学, 3年

学术型博士
兽医学, 4年

兽医专硕
兽医学, 2-3年

兽医博士
兽医学, 4年

缺少猪兽医专科培养与认证
缺少猪兽医实习/证书项目

国内学制: 部分改编自董维春

美国

本科教育
动物科学, 4年
其他专业 (修兽医
预科学分)

兽医学博士 DVM
兽医学博士, 4年

诊所/养殖企业执业
>=5年工作经历

猪兽医专科医师 ABVP
猪群健康管理

硕士 MS/MPH
兽医科学/公共卫生,
2-3年

猪兽医实习/猪兽医
证书项目
教学医院/诊所, 1年

猪兽医专科 (ABVP)
住院医师项目, 3年

哲学博士 PhD
兽医科学/生物医学,
~5年

双/多学位
DVM/MS 4+1~2
DVM/MPH 4+1~2
DVM/PhD 4+4

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为何需要猪兽医专科? Why do we need a pig veterinary specialist?

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中国猪兽医专科建设的背景与动因

The background and motivation of the construction of Chinas veterinary medicine specialty

◆ 产业发展的必然需求 The inevitable demand of industrial development

- 中国生猪产业飞速发展，规模化、集约化程度不断提高。Chinas pig industry has developed rapidly, and the degree of scale and intensification has been continuously improved.
- 猪兽医的角色已超越传统诊疗，扩展到健康管理、疾病预防、生物安全和生产效率提升等全方位领域。The role of swine veterinarians has expanded beyond traditional diagnosis and treatment to include health management, disease prevention, biosecurity and productivity improvement.

◆ 人才能力的更高要求 Higher requirements for talent ability

- 市场对兽医的专业技能与综合管理能力提出了更高、更迫切的需求。The market has put forward higher and more urgent demands for the professional skills and comprehensive management ability of veterinarians.
- 兽医不仅需要深厚知识，更需具备处理与预防猪病的实战技能，以确保猪群的健康、福利和生产性能。Veterinarians need not only deep knowledge, but also practical skills to deal with and prevent diseases in pigs to ensure the health, welfare and productivity of pigs.

◆ 兽医教育的专业化转型 Specialization in veterinary education

- 上述趋势推动了兽医教育从“全科”向“专科”的深刻转变。These trends have driven a profound shift in veterinary education from general to specialized.
- 专科化是提升兽医在特定领域深度和专业性的必由之路，旨在提供更高效、精准的服务。Specialization is the only way to improve the depth and expertise of veterinarians in specific fields, aiming to provide more efficient and accurate services.

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什么是中国猪兽医专科?

What is the China Pig Veterinary College?

◆官方发起与权威认证 Official initiation and authoritative certification

- 主办机构：中国兽医协会（CVMA）于2021年成立兽医专科建设委员会，主导建设。Organizer: The China Veterinary Medical Association (CVMA) established the Committee on Veterinary Specialty Development in 2021 to lead the development.

◆核心目标： Core objectives:

- 建立科学、规范的培训与评价体系，培养高水平猪兽医专科人才，与国际标准接轨。Establish a scientific and standardized training and evaluation system, cultivate high-level specialized talents of pig veterinarians, and meet international standards.

◆特色培养模式 Specialized training model

- 多种路径-“考核-评价”：通过严格考核后，授予“专科医师”资质。Multiple paths- "Assessment and evaluation": After strict assessment, the qualification of "specialist physician" is granted.
- 产学研融合：紧密结合产业实际需求，组织技术培训与国际交流，确保所学即所用。Industry-university-research integration: closely combine the actual needs of the industry, organize technical training and international exchanges, to ensure that what you learn is what you use.

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这是一个由中国兽医协会主导、对标国际、旨在培养顶尖猪兽医精英人才的系统化工程。

This is a systematic project led by the China Veterinary Association, benchmarking international standards, and aiming to cultivate top elite talents in pig veterinary medicine.

誠 樸 勤 仁

猪兽医专科的显著特征与深远意义

The distinctive features and far-reaching significance of the specialty of veterinary medicine for pigs

◆三大显著特征 Three striking features

- 产业关联度极高 High industrial correlation
- 人才需求极为迫切 The need for talent is urgent
- 国际对标尤为突出 International benchmarks are particularly prominent

◆深远价值与意义 Far-reaching value and significance

- 对产业：为生猪产业高质量发展提供坚实的人才支撑。For the industry: provide solid talent support for the high-quality development of the pig industry.
- 对行业：推动中国兽医专科体系的规范化与可持续发展，提供继续教育的机会，提升整个行业的专业水准。To the industry: Promote the standardization and sustainable development of Chinas veterinary specialty system, provide opportunities for continuing education, and enhance the professional standards of the entire industry.
- 对国家与社会：在保障食品安全、维护动物福利、促进公共卫生方面发挥不可替代的关键作用。To the country and society: play an irreplaceable key role in ensuring food safety, maintaining animal welfare and promoting public health.

中国猪兽医专科不仅是兽医专业能力的认证，更是保障国家农业安全、食品安全和产业竞争力的重要战略举措。

Chinas veterinary medicine specialty is not only the certification of veterinary professional competence, but also an important strategic measure to ensure national agricultural security, food safety and industrial competitiveness.



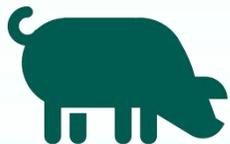
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猪兽医专科建设可行性 Feasibility of construction of specialized pig veterinary medicine

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猪兽医专科筹建可行性

Feasibility of establishing a specialized pig veterinary department



• 生猪产业发展需要:

• Hog industry development needs:

- 健康领航，向质而行 Health Navigation, Quality Action
- 猪业英才，亟不可待 The pig industry is excellent and urgent

▪ 培养模式与师资:

▪ Cultivation mode and teachers:

- 借鉴国外专科建设经验 Learn from the experience of foreign specialty construction
- 汇聚猪兽医临床专家 Gather pig and veterinary clinical experts
- 住院医师模式-专业研究生 Inpatient model-graduate students
- 在职猪兽医企业系统化教育 Systematic education for practicing veterinary medicine enterprises

▪ 资源条件完善:

▪ Perfect resource conditions:

- 专科委员团队建设 Specialist committee team building
- 养猪企业、服务公司支持 Pig raising enterprises and service companies support
- 强化实习实践基地建设 We will strengthen the construction of internship and practice bases
- 校企研究院推动产学研融合 University research institutes promote the integration of industry, education and research

猪兽医专科筹建可行性

Feasibility of establishing a specialized pig veterinary department



- 生猪产业发展需要:
- Hog industry development needs:
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 - 猪业英才，亟不可待
 - The pig industry is excellent and urgent

项目	美国 (参考)	欧洲 (参考)	中国 (AI估算需求)
母猪存栏	~600万头	~980万头	~4000万头
猪兽医总数	~850人	~6,000人	15,000 - 25,000 人 (一线兽医+产业兽医服务支持)
猪兽医专科医师	~14人	~160人	200 - 400 人

如母猪存栏因技术提升而降到3000万头，达到了一个更高级的发展阶段。

If the sow stock is reduced to 30 million due to technological improvement, it reaches a more advanced stage of development. 这个阶段的特点是: This stage is characterized by:

- **兽医总需求:** 下降，市场需要更专业、更高效的兽医，淘汰的是基础技术员。Total demand for veterinarians: declining, the market needs more professional and efficient veterinarians, and the basic technicians are eliminated.
- **专科医师需求:** 需求不会下降，顶尖专家的价值被无限放大，成为行业最稀缺的资源。Demand for specialist doctors: The demand will not decline, and the value of top experts will be magnified infinitely, becoming the most scarce resources in the industry.

猪兽医专科筹建可行性 Feasibility of establishing a specialized pig veterinary department

ABVP American Board of Veterinary Practitioners

ECPHM EUROPEAN COLLEGE OF PORCINE HEALTH MANAGEMENT



- 培养模式与师资:
- Cultivation mode and teachers:
 - 借鉴国外专科建设经验 Learn from the experience of foreign specialty construction
 - 汇聚猪兽医临床专家 Gather pig and veterinary clinical experts
 - 住院医师模式-专业研究生 Inpatient model-graduate students
 - 在职猪兽医企业系统化教育 Systematic education for practicing veterinary medicine enterprises

- 与Heiko Nathues教授，前欧洲猪健康管理学院主席线上交流
- Online communication with Professor Heiko Nathues, former President of the European Institute for Swine Health Management
- 中国兽医协会牛兽医专科委员会 -与马翀老师多次线上线下交流经验
- China Veterinary Associations Cattle Veterinary Committee – Multiple online and offline exchanges of experience with Professor Ma Chong

誠樸勤仁

猪兽医专科筹建可行性

Feasibility of establishing a specialized pig veterinary department



■ 培养模式与师资:

■ Cultivation mode and teachers:

- 借鉴国外专科建设经验 Learn from the experience of foreign specialty construction
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猪兽医执业的基本能力 - 调查研究

Investigative Research: Basic Competencies for Swine Veterinarians in Practice

Designed Domains of competence in swine practice

- 猪只处理
- 猪只饲养和管理
- 采样
- 临床推理
- 疾病治疗与预防
- 生物安全
- 沟通
- 监管
- 数据管理

基于我国猪兽医专业能力的调查

Survey Questionnaire on Professional Competencies for Swine Veterinarians

调查时间 Period of survey: 2023.2 - 2023.6

调查对象: Top 30 养猪企业兽医总监和高级经理、兽医咨询公司负责人、动保企业技术负责人以及猪兽医方向教授

调查内容: 评估猪兽医执业基本能力, 并对专业能力进行难、中和易的打分, 补充对从事猪兽医方向的兽医专业研究生(硕士或博士)的理想状态下的专业能力期望

调查结果: 根据调查结果和分析, 帮助制定和完善兽医专业硕士猪兽医方向培养计划

猪兽医专业能力
Swine competence
满足动物需求和社会期望
Meet the needs of animals
and the expectations of
society

2023年, 结合国外经验和本土情况, 构建了猪兽医专业能力指标和子能力指标

In 2023, the professional competence indicators and sub-competence indicators of pig veterinary medicine were constructed based on foreign experience and local conditions

>> 猪兽医知识和能力体系



猪兽医专科筹建可行性

Feasibility of establishing a specialized pig veterinary department



- 培养模式与师资:
- Cultivation mode and teachers:
 - 借鉴国外专科建设经验 Learn from the experience of foreign specialty construction
 - 汇聚猪兽医临床专家 Gather pig and veterinary clinical experts
 - 住院医师模式-专业研究生 Inpatient model-graduate students
 - 在职猪兽医企业系统化教育 Systematic education for practicing veterinary medicine enterprises

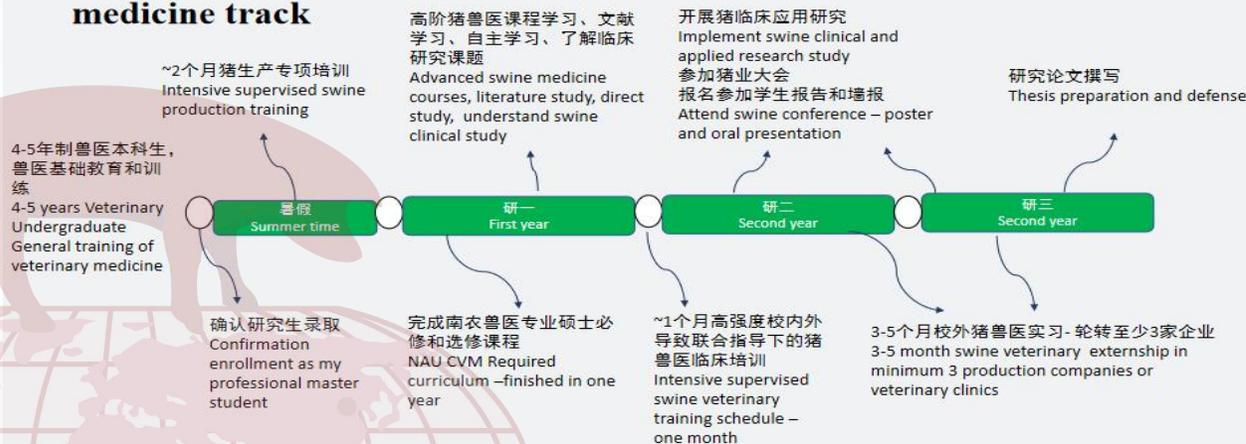
探索高校猪兽医专业硕士培养模式

Exploring the Master's Training Model for College Pig Veterinary Medicine

>> 南农猪兽医专业硕士培养计划



Roadmap of professional master of veterinary medicine – swine medicine track



My professional master students won several awards in student oral and poster presentations



First student in this program
Wenze Wang (王文哲)
Giant Star, 2024 Management Trainee



- 2024, 王俊彪, 第五届国际兽医检测诊断大会口头报告二等奖
- 2024, 王泓祥, 第十三届李曼中国养猪大会学生墙报比赛一等奖
- 2024, 王俊彪, 第十三届李曼中国养猪大会学生墙报比赛二等奖
- 2025, 王鸿翔, 第五届国际兽医检测诊断大会口头报告优秀奖



誠樸勤仁
以人為本

猪兽医专科筹建可行性

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探索在职猪兽医系统培训项目

Explore systematic training programs for active veterinarians

子能力平均分 (2024和2025年)



誠 樸 勤 仁

猪兽医专科筹建可行性

Feasibility of establishing a specialized pig veterinary department



- 资源条件完善:
- Perfect resource conditions:
 - 专科委员团队建设 Specialist committee team building
 - 养猪企业、服务公司支持 Pig raising enterprises and service companies support
 - 强化实习实践基地建设 We will strengthen the construction of internship and practice bases
 - 校企研究院推动产学研融合 University research institutes promote the integration of industry, education and research



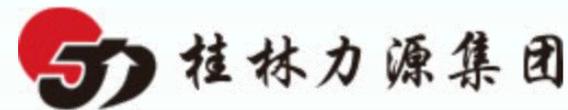
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Boehringer
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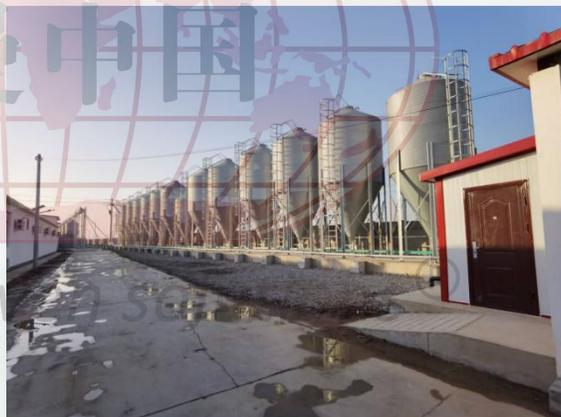
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南京農業大學
NANJING AGRICULTURAL UNIVERSITY

猪兽医专科委员会成员组成 Composition of the Committee on Veterinary Medicine for Pigs

Science-driven solutions®

中国猪兽医专科委员成员组成

Composition of members of the China Veterinary Medicine Committee



姜平
南京农大 教授



杨振
南京农大 副教授



郑泽中
华南农大 副教授



何启盖
华中农大 教授



李金龙
东北农大 教授



李龙
浙江农林 教授



伍少钦
京基智农 高级兽医师



刘从敏
PIC中国/技术服务总监



曲向阳
南京博维特董事长/总经理



张军
诗华全国兽医服务经理



莫玉鹏
桂林力源种猪兽医负责人



王帅彪
丹俄国际总经理



赵康宁
青岛卡美新程总经理



张振东
扬州大学 副教授

誠 樸 勤 仁



南京農業大學
NANJING AGRICULTURAL UNIVERSITY

猪兽医专科培养机构和 专科医师评价指南

Specialized training
institutions for pig
veterinarians and guidelines
for evaluating specialized
physicians[®]

Science of Veterinary Medicine[®]

专科培养指南 Specialized training guide

简介

第一部分 简介

1 介绍

随着我国生猪产业的快速发展，猪兽医在猪的健康管理、疾病防控，保障食品安全和提高生产效率发挥着重要作用。随着市场需求的增加，对猪兽医的专业技能和综合管理能力的要求也在不断提高，猪兽医不仅需要深厚的专业知识，还必须具备处理和预防猪疾病的专业技能，从而确保生产体系内猪只的健康、福利与生产性能。这种趋势推动了兽医教育从传统的全科向专门针对单一物种或特定专业领域的专科化发展。专科化培训可以使兽医在特定领域内深化专业知识，提升技术水平，从而提供更有针对性的诊疗和管理服务，同时也助于提高动物的健康福利，促进人与动物的和谐共处。

为此，中国兽医协会于2021年成立了兽医专科建设委员会，旨在规范和引领我国兽医专科体系的建设，推动专科化发展，并培养高水平的专科人才。在此框架下，猪兽医专科培养项目应运而生。该项目以我国生猪产业的现实需求为导向，建立科学的培训与评价体系，通过系统化的人才培养与专科医师评价，不仅提升猪群健康管理水平和养殖生产效率，还在动物福利、公共卫生与食品安全保障方面发挥关键作用。中国猪兽医专科的设置，旨在：

- 建立规范的培训与评价体系，制定符合国际标准的专科培训指南与评价标准，为兽医提供系统的学习路径与职业发展通道；培养与认证高水平专科人才，通过严格的培训、考试和再评价机制，打造一支具备临床诊疗、猪群健康管理能力和科研能力的猪兽医专科队伍；推动科研与技术进步，鼓励在猪群健康、疾病防控与可持续养殖领域开展研究与实践，促进成果转化与推广应用；促进专业交流与国际合作，搭建国内外学术交流与产业对接平台，推动经验分享与知识传播，逐步实现与国际兽医专科体系的认证与对接。

与其他兽医专科相比，猪兽医专科建设具有以下显著特征：产业关联度高，直接服务于我国最重要的畜牧业之一，影响范围广，涉及经济效益、公共卫生和食品安全；人才需求更迫切，由于生猪养殖规模庞大，行业对临床诊疗、猪群健康管理和生物安全的高水平人才需求更为集中；国际对标更突出，在专科建设标准、评价机制和专业能力培养方面，紧密借鉴欧洲猪健康管理学院等国际成熟模式，确保培训与评价体系具备国际认可和参考价值。

中国兽医协会猪兽医专科委员会致力于构建本土化猪兽医精英培养体系，通过制定专科培训标准与继续教育规范，建立严格的资格评价制度，授予通过考核的兽医“专科医师”资质；推动成员开展疫病防控、安全生产等

专科培养模式

第二部分 专科培养模式

中国猪兽医专科培养模式总体目标是建立一套多路径的猪兽医专科培养和评价模式，以适应中国生猪产业高质量发展的人才需求。通过猪兽医专科体系建设，提升猪兽医继续教育水平，对标国际标准，培养能引领产业发展的高端人才。

3 猪兽医专科医师培养与评价

猪兽医专科培养和评价目标是培养具备猪群健康管理综合能力的高级临床兽医，能独立解决复杂猪病问题、设计生物安全体系、优化生产性能，服务于大型养殖场、兽医技术服务公司及科研机构。猪兽医专科医师评价的主体机构是中国兽医协会猪兽医专科医师分会，共有猪兽医专科医师的核心培养路径，三轨并行。

路径 1：标准住院医师培训

该路径面向具备动物医学学士学位及以上学位及执业兽医资格认证的申请人。进入阶段需完成1年住院医师培训；可选择在猪兽医专科评价机构完成猪兽医临床轮转实习（至少1年），新手规范化培训/看诊所全职工作1年以上并提交病例日志及≥100个猪病临床病例证明。

正式住院医师培训为3年，由至少1名中国评价猪兽医专科医师全程指导，在专科培养机构及合作培养机构完成至少50例的兽医临床学习，其余时间可在培养机构或兽医专科医师指定的合作培养机构内学习。培训内容以临床实践为主（≥60%时间），涵盖猪群健康管理、疾病诊断、生物安全设计等核心任务，同时定期参与病例、前沿文献研讨会等行业继续教育课程并提升学术。鼓励参与猪群健康管理轮转学习，并允许兼职实践（总时长≤3年），但须确保培训临床效果。

学术成果要求：所有候选人须在培训完成后3年至培训完成后2年内，以第一作者身份发表2篇猪群健康管理相关论文（类型包括原创研究或临床病例报告），发表于SCI收录期刊或中文核心期刊；同时提交3份亲自处理的病例报告（展示至少两种不同病例的诊断方法，如病毒学诊断、生物安全优化或生物安全体系构建）。若2篇论文已投稿但暂未接收，可先行参加考试，但正式评价前必须取得期刊录用证明。申请人须在培训完成后6个月内提交全部申报材料，逾期视为自动放弃资格。资质委员会对论文质量及考试资格保留终审权。

路径 2：实践替代路径

本路径针对无法参加标准住院医师项目，但已在猪兽医领域实践经验的在职从业者（如猪场兽医、技术服务专家），申请人须持有执业兽医资质

专科培养机构

第三部分 专科培养机构

4 申请要求

4.1 资质要求

- 申请猪兽医专科培养机构应为中国兽医协会会员单位。

4.2 师资力量

申请机构应有至少1名符合要求的猪兽医专科医师，首批专科医师须列入《首批猪兽医专科医师名单》，每人最多同时带教5名标准住院医师项目学员和5名实践替代路径项目学员。

4.3 教育资质

4.3.1 合作培养

申请机构需具备支撑学员培训所需的教学场资源及充足临床病例量。申请机构可为高校等教学科研单位、养殖企业、猪群健康管理服务公司等单位，若申请机构为高校等教学科研单位，则须与至少1家合作养殖公司、猪群健康管理服务公司等单位建立合作培养关系。申请机构与合作单位的合作单位需满足拥有或委托管理超过5万头能繁母猪，每年病例量不少于30例，并需满足至少3名专职从事猪群健康管理的执业兽医；其生产体系须涵盖母猪场、保育舍及育肥场等完整生产单元，同时具备专职兽医部门、完善的生产数据记录系统及标准化临床诊疗设施。此外需指定专人参与专科培养机构对接，并能提供满足学员轮转学习与生活的基础保障条件。

4.3.2 诊断实验室

申请机构需具备从事猪病诊断检测实验室。实验室可涵盖常规微生物学、血清学、分子生物学和病理学诊断要求，能够开展猪场常见的细菌、病毒感染、血液学检测、病原学分子生物学诊断等，能够满足猪病常规实验室检查相关内容的培训。

4.3.3 学术资源与活动

申请机构可以设立或与合作单位合作，开设包括理论知识和实践的猪兽医继续教育课程。经专业委员会审核后，均可纳入指导兽医的正式培训过程中。培养机构定期组织兽医专科培训项目学员及指导教师进行专业交流，每年举办不少于1次学术研讨会，参与社会兽医继续教育，定期组织或参与猪兽医相关学术大会。培养机构具有一定数量能够支撑专科培训的电子或印刷资料资源，可供项目学员查阅最新兽医学术期刊与图书。

4.4 其他合作资源

具有其他合作院校和合作培养企业，能够为学员提供多个猪场兽医培训和实践机会，鼓励学员跨机构学习。

人员

第四部分 人员与管理

8 申请要求

8.1 申请猪兽医专科培养项目要求

申请猪兽医专科培养机构标准（由兽医项目或实践替代路径的人员应满足以下要求）：

- 毕业于教育部认可的兽医相关专业，或持有教育部留学服务中心认证的国外兽医学院相关兽医学位；
- 具有本科及以上学历；
- 具有中华人民共和国执业兽医资格证；
- 具有较高的高级职业素养，无犯罪记录；

申请人员填写《猪兽医专科项目学员申请表》（见附件4），需提交猪兽医专科培养机构的申请材料包括：

- 个人简历，含个人信息、教育经历、工作经历、实习实践经历、专业成果、荣誉及奖励；
- 相关证明材料，含毕业证、学位证、执业资格证明或职称证明、专业成果首页或版权页证明、荣誉及奖励证明；
- 申请人无犯罪记录，具有较高的职业素养；
- 推荐信，需提交推荐信；推荐信至少由2人为从事猪群健康管理的执业兽医，另一人可为申请人的老师、工作领导或同事，推荐人应熟悉申请人的基本情况及专业背景，推荐信应充分体现申请人的个人品德和专业能力；

申请人员根据依托培养机构要求提交材料。提交材料具体要求、提交方式和提交时间，参考各猪兽医专科培养机构具体要求。各猪兽医专科培养机构每年需向猪兽医专业委员会报备招生学员信息和培养情况。

8.2 申请专科医师评定的人员要求

- 在中国兽协会员单位；
- 毕业于教育部认可的兽医学院畜牧兽医相关专业，或持有教育部留学服务中心认证的国外兽医学院相关兽医学位；
- 具有中华人民共和国执业兽医资质，满足以下条件之一：
 - 完成标准住院医师培训项目或实践替代路径；
 - 符合专项替代路径（仅限人才快速评价）；
- 通过猪兽医专科医师考核；

本指南是相关机构申请专科培养机构和培养项目，进行猪兽医专科人才培养以及执业兽医医师申请参加专科培养项目和专科医师评定的指导性文件，本指南将根据具体实施情况的评估、分析、论证不断进行优化。 This guide is a guiding document for relevant institutions to apply for specialized training institutions and specialized training programs and specialized physician evaluation. This guide will be continuously optimized according to the evaluation, analysis and demonstration of specific implementation.



专科培养指南——专科培养模式

Specialized training guide —— Specialized training model



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路径1: 标准住院医师项目 Pathway 1: Standard Resident Program

申请人需具备动物医学学士及以上学位及执业兽医资格证。

Applicants should have a bachelors degree or above in veterinary medicine and a practicing veterinarian certificate.

1. 准入要求 (满足其一即可) :

1. Entry requirements (one of them is satisfied):

- (1) 在猪兽医专科培养机构完成1年以上临床轮转实习。
(1) At least 1 year of clinical rotation internship in specialized training institutions for veterinary medicine.
- (2) 考入在猪兽医专科培养机构的猪兽医方向专业研究生, 且有>2个月的猪场实习时间
(2) Be admitted to the graduate program of pig veterinary medicine in the specialized training institution of pig veterinary medicine, and have more than 2 months of internship in a pig farm
- (3) 在规模化猪场/专科诊所全职工作1年以上, 并提交病例日志及不少于100学时的猪病专题培训证明。
(3) Full-time work in a large-scale pig farm/specialized clinic for more than 1 year, and submit the case log and the certificate of special training on pig disease for no less than 100 credit hours.

2. 培养安排: 2. Training arrangements:

- (1) 正式培养期为3年, 须由至少1名中国评价猪兽医专科医师指导;
(1) The formal training period is 3 years and must be guided by at least one China certified veterinary specialist;
- (2) 需在专科机构或合作公司完成不少于52周的临床学习, 其余时间可在指定场所进行;
(2) Clinical study shall be completed in a specialized institution or a partner company for no less than 52 weeks, and the rest of the time can be conducted at designated sites;
- (3) 临床实践占比不低于60%, 鼓励跨机构轮转, 允许兼职完成 (总时长不超过5年)。
(3) Clinical practice accounts for no less than 60%, cross-institutional rotation is encouraged, and part-time work is allowed (the total duration is not more than 5 years).

3. 学术成果要求 (培训开始后5年内) :

3. Academic achievements (within 5 years after the start of training):

- (1) 以第一作者发表2篇猪群健康管理相关论文 (SCI或中文核心期刊, 可为原创研究或病例报告);
(1) Publish 2 papers related to swine health management as the first author (SCI or Chinese core journals, which can be original research or case report);
- (2) 提交3份亲自处理的病例报告, 需涵盖至少三种不同场景 (如疫病处置、生产优化或生物安全构建)。
(2) Submit 3 cases reports handled in person, covering at least three different scenarios (e.g., epidemic disposal, production optimization or biosecurity construction).

专科培养

Specialized training

备注: (1) 论文可先投稿后考试, 但须在最终评价前提供录用证明; (2) 全部资质材料最晚须在培训结束后2年内提交, 逾期视为放弃; (3) 委员会对论文质量及考试资格保留最终审核权。
Note: (1) The paper can be submitted before the exam, but a proof of acceptance must be provided before the final evaluation; (2) All qualification materials must be submitted no later than 2 years after the completion of the training. Failure to do so will be considered as abandonment; (3) The committee reserves the final right to review the quality of the paper and the eligibility for the exam.

誠 樸 勤 仁

专科培养指南——专科培养模式

Specialized training guide —— Specialized training model

路径2：实践替代路径项目

Pathway 2: Practice instead of pathway programs

本路径适用于无法全职参与、但已在猪兽医领域有深度实践的在职从业者（如驻场兽医、技术服务专家）。

This path is suitable for practitioners who are unable to participate full-time but have deep experience in the field of pig veterinary medicine (such as resident veterinarians, technical service experts).

1. 准入要求:

- (1) 持有执业兽医资格证及动物医学专业本科及以上学历;
- (2) 具备5年以上猪生产与兽医临床工作经验, 且近3年内 $\geq 60\%$ 工作时间专注于猪健康管理;
- (3) 须由1名猪兽医专科委员推荐并担任导师。

1. Access requirements:

- (1) Hold the qualification certificate of practicing veterinarian and a bachelors degree or above in animal medicine;
- (2) At least 5 years of experience in pig production and veterinary clinical work, and at least 60% of the working time in the recent 3 years is focused on pig health management;
- (3) Must be recommended by a specialist committee member of pig veterinary medicine and serve as a tutor.

2. 培养安排: 2. Training arrangements:

- (1) 培训周期为3年, 依托经评价的猪兽医专科培养机构开展学习与实践;
- (1) The training cycle is 3 years, relying on the evaluated specialized training institutions for pig veterinarians to carry out learning and practice;
- (2) 须在导师指导下制定个性化培养计划, 并报专科培养机构委员会审批;
- (2) The individualized training plan shall be formulated under the guidance of the supervisor and submitted to the committee of the specialized training institution for approval;
- (3) 每年提交1份包含病例分析及生产改进方案的实践报告, 由导师评估签字;
- (3) Submit a practice report containing case analysis and production improvement plan every year, which shall be evaluated and signed by the supervisor;
- (4) 累计完成 ≥ 300 学时猪兽医专科委员会认可的继续教育课程(可线上/线下混合), 重点强化实战与系统理论整合。
- (4) Complete a total of more than 300 credit hours of continuing education courses recognized by the Pig Veterinary Specialized Committee (online/offline hybrid), focusing on strengthening the integration of practical and systematic theories.

3. 学术成果要求:

3. Academic achievements requirements:

与“路径1: 标准住院医师项目”要求一致。

Consistent with the requirements of Pathway 1: Standard Resident Physician Program.

专科培养

备注: (1) 须在培训结束后2年内提交全部资质材料, 逾期视为放弃; (2) 委员会对培养过程及学术成果保留最终审核权。

Note: (1) All qualification materials shall be submitted within 2 years after the end of the training, otherwise it will be deemed as abandonment.

The committee reserves the final right of review over the training process and academic achievements.

专科培养指南——专科医师考试

Specialist training guide —— Specialist physician examination



报考资格

- 标准住院医/实践替代路径项目：
- 完成培训并通过项目考核，具体技能要求详见《中国兽医协会猪兽医专科知识技能要求》。
- 获培养单位及导师推荐，经初审与复审合格



考试构成（四个部分）

- 临床病例报告与答辩：展示临床分析与决策能力
- 多项选择题：考查疾病预防、生物安全、群体健康等系统知识
- 论述题：评估复杂问题应对与逻辑分析能力
- 综合病例管理考试：模拟真实场景，考察诊断与管理综合能力



评分与规则

- 总分 $\geq 60\%$ 且单项 $\geq 50\%$ 为通过
- 未通过需重考所有低于60%的部分
- 考试机会：4次为限（初考+3次重考）
- 有效期：完成培训后8年内须通过全部考试
- 成绩统一公布并附个性化反馈报告

猪兽医专科医师知识、技能和能力要求

Knowledge, skills and competency requirements of specialized pig veterinarians

1. 分析农场生产记录/生产报表

1. Analyze farm production records/production reports

- 信息收集- information gathering
- 综合问题, 进行鉴别诊断 -Comprehensive problems, for differential diagnosis
- 根据现有临床问题制定治疗方案 -Develop treatment plans based on existing clinical problems

2. 执行生产程序和管理

2. Implement production procedures and management

- 执行兽医程序和后续管理 -Implementation of veterinary procedures and follow-up management
- 健康保健和预防性护理 Health care and preventive care

3. 群体动物护理和管理

3. Group animal care and management

- 猪群健康管理原则-Principles of swine herd health management
- 制定生物安全方案-Development of biosafety programmes
- 倡导动物福利-Advocacy for animal welfare

4. 公共卫生4.public health

- 识别人畜共患疾病并做出相应处理 -Identify zoonotic diseases and take appropriate measures
- 促进人与环境的健康安全 -Promoting the health and safety of people and the environment
- 农场监管能力 -Farming regulatory capacity

5. 沟通能力 5.communication skills

- 适应同事和客户的沟通风格 -Adapt to the communication style of colleagues and clients
- 准备适合目标受众的文件 -Prepare documents tailored to the target audience

6. 财务与实践管理 6.Finance and Practice Management

- 权衡个人和商业决策中的经济因素 -weighing economic factors in personal and business decisions
- 提供符合法律和法规要求的兽医服务 -Provide veterinary services in compliance with legal and regulatory requirements
- 在工作场所倡导动物、服务对象和团队成员的健康和安全 -Advocating for animal, client and team member health and safety in the workplace
- 工作组织与效率 -Organization and efficiency of work

7. 学术研究能力 7.Academic research capacity

- 评估与健康有关的信息; 整合、适应和应用知识和技能 -Assessment and health-related information; integration, adaptation and application of knowledge and skills
- 向利益相关者传播知识和实践 -Dissemination of knowledge and practices to stakeholders
- 掌握前沿知识并开展研究 -Master cutting-edge knowledge and conduct research

详见表《中国兽医协会猪兽医专科知识技能要求》

Please refer to the table "Technical Requirements for Pig Veterinary Specialty Knowledge and Skills of the Chinese Veterinary Association for details

专科培养指南——专业培养机构

Specialized training guide —— Specialized training institutions

基本资质

Basic qualifications

须为中国兽医协会会员单位
It must be a member of the China Veterinary Association

配备至少1名符合要求的猪兽医专科医师（可带教5名标准住院医师项目学员和5名实践替代路径项目学员）
At least one qualified specialist in veterinary medicine (who can supervise 5 standard resident program students and 5 practical alternative pathway program students)

教育资源要求 Education resource requirements

合作培养：（申请机构为高校等教学科研单位，则须与至少1家合作养猪公司、猪群健康管理服务公司等单位建立合作培养关系）
Collaborative learning: (If the applicant is a teaching and research institution such as a university, it must have at least 1 establish cooperative training relationship with family cooperative pig raising company, pig herd health management service company and other units)

须拥有或托管≥5万头能繁母猪，年病例量≥30例
Must have or host more than 50,000 breeding sows and more than 30 cases per year

配备≥3名专职执业兽医，具备完整生产单元及数据系统
Equipped with at least 3 full-time practicing veterinarians, complete production unit and data system

提供驻场学习与生活保障
Provide on-site study and living support

诊断实验室：Diagnostic laboratory:
具备微生物学、血清学、分子生物学等常规检测能力
It has routine testing capabilities such as microbiology, serology and molecular biology

学术资源：Academic resources:
开设经认可的继续教育课程
Offering accredited continuing education courses

每年举办≥1次学术研讨会，提供最新期刊与图书资源
Organize academic symposiums at least once a year to provide the latest periodicals and books

续签与管理

Renewal and administration

资质有效期4年，到期前6个月提交续签申请
最新名录详见中国兽医协会官网附录4
The qualification is valid for 4 years, and the renewal application should be submitted 6 months before the expiration
For the latest list, see Appendix 4 on the official website of the China Veterinary Association.

培养与评估机制

Cultivation and evaluation mechanism

项目学员应在规定时间内按照专科培养机构制定的培养方案完成相应学习。
Project students shall complete the corresponding study in accordance with the training program formulated by the specialized training institution within the prescribed time.

申请与评审流程

Application and review process

项目主管应依照既定的评估计划定期对项目学员进行评估，形成书面总结并上交专科委员会。
The project supervisor shall evaluate the project students regularly according to the established evaluation plan, form a written summary and submit it to the special committee.

专科培养指南——人员与管理

Specialized training guide —— Personnel and management

人员与管理

Personnel and management

申请专科医师培养项目条件 Conditions for applying for the specialist training program

人员要求：中国兽医协会会员，兽医相关专业本科及以上学历，持执业兽医资格证；一年预训轮转或全职工作一年+100个继续教育学时

Personnel Requirements: Member of the China Veterinary Association, bachelors degree or above in veterinary-related majors, and hold a practicing veterinarian qualification certificate; one year of pre-training rotation or full-time work for one year plus 100 continuing education hours.

提交材料：简历、推荐信：需提交2-3封推荐信（至少2封来自猪兽医专科医师）、先关证明材料材料。（详见8.1）

Submission materials: Resume, recommendation letters: 2-3 recommendation letters (at least 2 from pig veterinary specialist) and proof of prior work should be submitted. (See 8.1 for details)

专科医师评定 Specialist evaluations

必备条件：完成资质审核和考试标准住院医师培训或实践替代路径；通过专科医师考核；提交病例报告及学术成果（核心期刊/SCI论文等），提交个人材料、病例报告、学术成果、继续教育学时等（详见9.1）。Must-have requirements: Complete qualification review and examination standards for resident training or alternative practice path; pass the specialist physician examination; submit case reports and academic achievements (core journals/sci papers, etc.), submit personal materials, case reports, academic achievements, continuing education hours, etc. (see 9.1 for details).

评定流程：通过考核后由中国兽医协会审核并颁发证书

Assessment process: After passing the examination, the China Veterinary Association will review and issue the certificate

执业义务与权利 Professional obligations and rights

义务：每年完成≥40学时继续教育；提交年度执业报告，每五年完成再评价；参与专科委员会活动及行业建设

权利：使用“中国兽医协会猪兽医专科医师”头衔；担任项目主管或监管医师；竞聘专科委员会委员 Obligations: Complete at least 40 hours of continuing education per year; submit annual practice report and complete reevaluation every five years; participate in activities of the special committee and industry construction

Rights: Use the title of "China Veterinary Association Specialist Pig Veterinarian"; serve as a project supervisor or supervising physician; compete for membership in the specialist committee

执业状态管理 Practice status management

非执业状态：未履行义务者暂停相关权利；

再评定：需提交执业报告及案例记录，证明150天临床工作；

暂停执业：退休、身体原因可报备暂停，免除义务与权利；

退出机制：终止注册须经专科委员会批准。Non-working status: those who fail to fulfill their obligations will have their relevant rights suspended;

Retrial: a practice report and case records are required to prove 150 days of clinical work;

Suspend practice: retirement, physical reasons can be reported to suspend, exempt from obligations and rights;

Exit mechanism: termination of registration shall be approved by the special committee.

专科委员会管理 Specialized committees management

猪兽医专科委员会管理参照《中国兽医协会专科委员会管理规定（试行）》

下设资质审核、考试、教育培训和纪律四个专项小组，分别负责标准制定、考试组织、纪律监督等职责

The management of the Pig Veterinary Committee refers to the Regulations on the Management of Specialized Committees of the China Veterinary Association (Trial). There are four special groups under the qualification examination, examination, education and training and discipline, which are responsible for standard formulation, examination organization and discipline supervision respectively

誠 樸 勤 仁



南京農業大學
NANJING AGRICULTURAL UNIVERSITY

培养机构 - 南农动医 Cultivation institution - South African University of Agriculture and Veterinary Medicine

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专科培养指南——猪兽医专科培养机构申报单位-南京农业大学

Specialized training guide —— Pig veterinary specialized training institution application unit-Nanjing Agricultural University

机构概况 :About us:

- 历史底蕴：前身为1921年东南大学畜牧兽医系，国家“双一流”建设学科单位 History: It was formerly the Department of Animal Husbandry and Veterinary Medicine of Southeast University in 1921, and is a national "Double First-class" discipline construction unit
- 组织架构：下设基础医学、预防医学、临床医学等多系，猪病创新团队为核心力量 -Organizational structure: there are many departments such as basic medicine, preventive medicine and clinical medicine, with the innovative team of swine disease as the core force
- 平台支撑： -Platform support:
农业部动物细菌学重点实验室等国家级/省部级平台
National key laboratory of animal bacteriology, Ministry of Agriculture and other national/ministerial level platforms



相关常规实验室和CNAS认可猪病检测实验室，实验面积超3000m²
Related routine laboratory and CNAS accredited pig disease testing laboratory, the experimental area is over 3000m²



猪病诊断：诊断检测->病原分离->病理分析
Diagnosis of swine disease: diagnostic detection-> pathogen isolation-> pathological analysis



誠 樸 勤 仁

专科培养指南——猪兽医专科培养机构申报单位-南京农业大学

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项目主管和
监管医师Project
supervisor and
supervising
physician

姜平（项目主管/监管专科医师）
Ping Jiang (Project
Manager/Regulatory Specialist)
杨振（监管专科医师）
Yang Zhen (Regulatory Specialist
Physician)

设备资源
Equipment
resources

- 配备超高效液相色谱-质谱联用仪、流式细胞分选仪、高通量测序仪等先进设备
- 具备病原鉴定、分子诊断、组织病理分析及免疫评价全流程能力
- Equipped with ultrahigh performance liquid chromatography-mass spectrometry, flow cytometry, high-throughput sequencer and other advanced equipment
- Capable of pathogen identification, molecular diagnosis, histopathological analysis and immune evaluation throughout the whole process

教育资源：
病例库：农场动物疫病案例库（含临床数据与处置结果）
学术活动：
- 主办南农猪业大会、兽医检测诊断大会、猪兽医热点沙龙、协办李曼养猪大会等行业会议
文献资源：
- 馆藏纸质/电子书刊超千万册
病例规模（年案例量 ~200）
- 病毒性疾病（PRRS、圆环病毒等）：>100例
- 细菌性疾病（链球菌、巴氏杆菌等）：>50例
- 综合症/疑难病例/现场服务：>50例
educational resources：
Case base: farm animal disease case base (including clinical data and disposal results)
academic activities：
- Hosted the South Agricultural Pig Industry Conference, Veterinary Testing and Diagnosis Conference, Pig Veterinary Hot Salon, and co-sponsored the Li Man Pig Conference and other industry conferences
Literature resources
- The library has more than 10 million copies of printed/electronic books
Case size (annual case volume ~200)
- Viral diseases (PRRS, circovirus, etc.): > 100 cases
- Bacterial diseases (streptococcus, bacillus, etc.): > 50 cases
- Complex cases/complex cases/field service: > 50 cases

近5年科研产出
Research
output in the
last 5 years

- 发表多篇SCI论文（其中J Virol、PLoS Pathog等TOP期刊）
- 研究方向覆盖病毒免疫逃逸、自噬调控、病原检测技术创新、流行病学和生产医学等
- Published many SCI papers (including J Virol, PLoS Pathog and other TOP journals)
His research interests cover viral immune escape, autophagy regulation, innovative technologies for pathogen detection, epidemiology and production medicine.

行业交流
Industry
exchanges

- 与硕腾、安泰集团等共建生猪产业研究院
- 与巨星农牧、桂林力源、山东环山、法国诗华、南京博维特、丹俄国际、青岛卡美新程等建立了合作培养关系，深化产学研合作
- 持续参与世界猪病大会、李曼大会等国际会议
- Jointly built with Shuoteng, Aetna Group and others
Pig Industry Research Institute
- Cooperation and training relationships have been established with superstar Agriculture and Animal Husbandry, Guilin Liyuan, Shandong Huanshan, France Shi Hua, Nanjing Bowite, Danuo International, Qingdao Cami Xincheng, etc., to deepen industry-university-research cooperation
- Continuous participation in international conferences such as World Swine Disease Conference and Leman Conference

誠 樸 勤 仁

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标准住院医师项目（三阶段进阶）：Standard Resident Physician Program (Three-stage Advancement):

第1年：基础理论 + 核心技能（临床轮转、病例讨论） Year 1: Basic theory + core skills (clinical rotation, case discussion)



第2年：专项能力提升（生物安全审计、疫情处置、研究启动） Year 2: Specialized competence enhancement (biosafety audit, outbreak response, research initiation)



第3年：整合应用（独立管理项目、论文发表、教学能力培养） Year 3: Integrated application (independent management of projects, publication of papers, teaching ability development)

实践替代路径（四阶段个性化）：

Practice alternative path (four stages of personalization):

1.第1-3月：基线评估 + 个性化计划制定 January-March: Baseline assessment + development of a personalized plan



2.第4-18月：理论系统化 + 技能标准化（≥150学时继续教育） April-18th: Theoretical systematization + Skill standardization (≥ 150 credit hours of continuing education)



3.第19-30月：能力整合 + 学术攻坚（健康管理项目主导、论文撰写） September-October: Competency integration + Academic breakthrough (health management project led, thesis writing)



4.第31-36月：答辩准备 + 综合评估（终期考核 + 考试申请） Months 31-36: Defense preparation + Comprehensive evaluation (final assessment + exam application)

誠 樸 勤 仁

专科培养指南——猪兽医专科培养机构申报单位-南京农业大学

Specialized training guide —— Pig veterinary specialized training institution application unit-Nanjing Agricultural University

标准住院医师项目培养计划表

Standard resident Physician Program training schedule

培养阶段	时间安排	培养目标	培养方案
预培训阶段	第1年（准入前提）	<ol style="list-style-type: none"> 1. 获得基本猪场生产和临床操作经验 2. 熟悉规模化猪场运作流程和生物安全要求 3. 为专科培训打下基础 	<ol style="list-style-type: none"> 1. 选项一：在指定专科评价机构完成1年临床轮转实习 2. 选项二：在规模化猪场全职工作1年+完成≥100学时猪病专题培训 3. 提交病例日志和培训证明，经审核进入正式培训
第一阶段 基础理论与核心技能塑形	正式培训第1年	<ol style="list-style-type: none"> 1. 掌握猪病学、健康管理、生物安全核心理论 2. 熟练掌握个体处理、样品采集、尸检等临床技能 3. 适应猪场环境，遵守生物安全规程 	<ol style="list-style-type: none"> 1. 集中理论授课：系统化课程覆盖知识技能要求基础模块 2. 临床轮转实践：在各生产单元（母猪场、保育舍、育肥场）轮转 3. 每周病例讨论会：汇报病例，学习诊断思路 4. 阶段性评估（12个月）：理论考试+临床技能考核
第二阶段 专项能力提升与问题解决	正式培训第2年	<ol style="list-style-type: none"> 1. 从个体诊疗转向群体健康管理思维 2. 独立完成生物安全审计和生产数据分析 3. 具备调查和处置常见疫情的能力 4. 开始学术研究，确定研究方向 	<ol style="list-style-type: none"> 1. 深度实践：参与生物安全审计和生产绩效分析 2. 高级培训：流行病学、经济学、高级诊断技术等专题 3. 跨机构学习：饲料厂、屠宰场、诊断实验室短期学习 4. 研究启动：确定论文方向，开始数据收集 5. 阶段性评估（24个月）：群体问题分析能力评估
第三阶段 整合应用与领导力培养	正式培训第3年	<ol style="list-style-type: none"> 1. 全面负责猪群健康管理项目 2. 完成学术论文撰写与投稿 3. 具备教学和沟通能力 4. 做好专科考试准备 	<ol style="list-style-type: none"> 1. "准专科医师"实践：负责1-2个猪场健康管理 2. 学术攻坚：完成2篇论文+3份深度病例报告 3. 教学沟通：病例讨论会主讲，指导低年级学员 4. 考前准备：全面复习，参加模拟考试 5. 终期评估（36个月）：综合评估，考试准入必备

全程要求：完成至少52周临床学习；≥60%时间用于临床实践；定期记录病例日志并接受检查；参加学术研讨会和继续教育会议；与项目主管和监管医师保持密切沟通。

Full requirements: Complete at least 52 weeks of clinical learning; spend at least 60% of your time in clinical practice; regularly document case logs and undergo examinations; attend academic seminars and continuing education conferences; and maintain close communication with program directors and supervising physicians.

实践替代路径项目培养计划表

Programme schedule for the Practice Alternative Pathway Project

培养阶段	时间安排	培养目标	培养方案
第一阶段 基线评估与个性化计划制定	第1-3个月	<ol style="list-style-type: none"> 1. 全面评估现有知识体系和技能水平 2. 制定个性化三年培养计划 3. 明确学习重点和实践任务 	<ol style="list-style-type: none"> 1. 遴选评估：访谈+技能考核+工作记录审查 2. 导师匹配：指定专科委员作为导师 3. 计划制定：共同起草《个性化培养计划书》 4. 初始任务：学习知识技能要求文件，规范记录病例
第二阶段 理论系统化与技能标准化	第4-18个月	<ol style="list-style-type: none"> 1. 弥补理论短板，构建系统化知识体系 2. 提升临床操作规范性和科学性 3. 完成基础理论和技能模块 	<ol style="list-style-type: none"> 1. 理论提升：完成≥150学时核心理论继续教育 2. 实践深化：应用理论解决实际问题，接受导师指导 3. 每季度提交1份深度病例分析报告 4. 中期评估（12个月）：学习进度和实践报告质量评估
第三阶段 能力整合与学术攻坚	第19-30个月	<ol style="list-style-type: none"> 1. 独立设计实施健康管理方案 2. 开展应用性研究，完成论文初稿 3. 培养行业领导力和沟通能力 	<ol style="list-style-type: none"> 1. 高级实践：主导健康管理项目并形成报告 2. 学术研究：确定课题，收集数据，撰写2篇论文初稿 3. 交流领导力：参加学术会议并做报告，病例讨论会主讲 4. 继续教育：完成剩余≥150学时继续教育
第四阶段 答辩准备与综合评估	第31-36个月	<ol style="list-style-type: none"> 1. 整合知识技能，达到考核标准 2. 完成所有学术成果提交 3. 通过终期评估，准备专科考试 	<ol style="list-style-type: none"> 1. 终期评估：全面考核知识、技能和综合能力 2. 成果固化：确保2篇论文被接收，完成3份精炼病例报告 3. 考前冲刺：参与模拟答辩、历年考题分析 4. 考试申请：由培养机构和导师推荐提交考核申请

全程要求：与导师保持每月沟通；持续记录并更新病例日志；按时提交年度实践报告和继续教育证明；参加各类学术活动和评估；完成≥300学时继续教育

Full requirements: Keep monthly communication with the supervisor; continue to record and update the case log; submit annual practice report and continuing education certificate on time; participate in various academic activities and assessments; complete at least 300 hours of continuing education

下一步工作计划Next work plan

- ◆ 存量猪兽医专科医师申请与评价
- ◆ Application and evaluation of existing pig veterinary specialists
- ◆ 启动标准住院医师项目和实践替代路径项目招生
- ◆ Admissions to the standard resident physician program and the alternative path of practice program will be initiated
- ◆ 鼓励符合条件的单位申报猪兽医专科培养机构
- ◆ We will encourage qualified units to apply for specialized training institutions for pig veterinarians

首批标准住院医师和实践替代
路径项目招生报名
(截止时间2025年12月1日)
The first batch of standard
resident physician and practice
alternative pathway program
enrollment registration (deadline
December 1, 2025)



南京農業大學

NANJING AGRICULTURAL UNIVERSITY

谢谢!
Thank you!

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