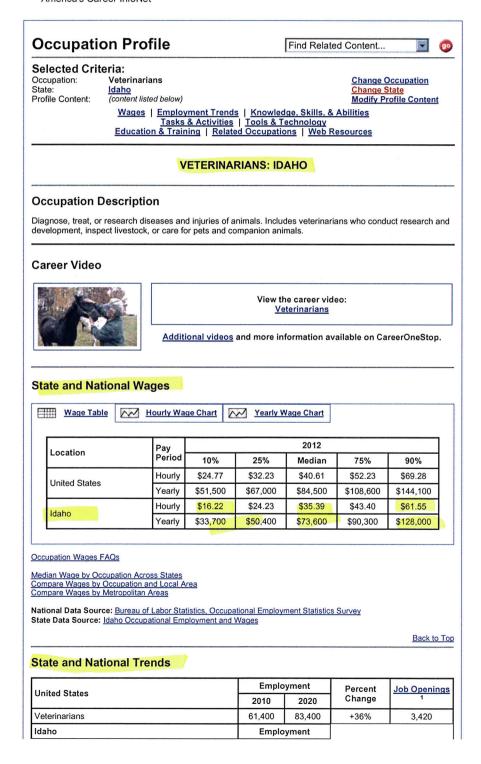




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United States	Employment		Percent	Job Openings	
	2010	2020	Change	1	
	2010	2020			
Veterinarians	480	630	+31%	30	

¹Job Openings refers to the average annual job openings due to growth and net replacement.

Occupation Trends FAQs

Employment Trends by Occupation Across States Compare Employment Trends by Occupation
Employment Trends by Industry and Occupation

National Data Source: Bureau of Labor Statistics, Office of Occupational Statistics and Employment Projections

State Data Source: Idaho Commerce & Labor, Research & Analysis Bureau

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Knowledge, Skills, and Abilities

The most important knowledge, skills, and abilities (KSAs) are listed for Veterinarians.

Knowledge:

- · Biology Knowledge of plant and animal organisms, their tissues, cells, functions, interdependencies,
- and interactions with each other and the environment.

 Customer and Personal Service Knowledge of principles and processes for providing customer and personal services. This includes customer needs assessment, meeting quality standards for services, and evaluation of customer satisfaction.
- Medicine and Dentistry Knowledge of the information and techniques needed to diagnose and treat human injuries, diseases, and deformities. This includes symptoms, treatment alternatives, drug properties and interactions, and preventive health-care measures
- Mathematics Knowledge of arithmetic, algebra, geometry, calculus, statistics, and their applications.
- Chemistry Knowledge of the chemical composition, structure, and properties of substances and of the chemical processes and transformations that they undergo. This includes uses of chemicals and their interactions, danger signs, production techniques, and disposal methods
- English Language Knowledge of the structure and content of the English language including the meaning and spelling of words, rules of composition, and grammar.

Skills:

- Science Using scientific rules and methods to solve problems.
 Active Listening Giving full attention to what other people are saying, taking time to understand the points being made, asking questions as appropriate, and not interrupting at inappropriate times
- Critical Thinking Using logic and reasoning to identify the strengths and weaknesses of alternative
- solutions, conclusions or approaches to problems. Speaking Talking to others to convey information effectively.
- Judgment and Decision Making Considering the relative costs and benefits of potential actions to choose the most appropriate one.
- Reading Comprehension Understanding written sentences and paragraphs in work related

- · Inductive Reasoning The ability to combine pieces of information to form general rules or conclusions (includes finding a relationship among seemingly unrelated events).
- · Oral Comprehension The ability to listen to and understand information and ideas presented through spoken words and sentences.
- Oral Expression The ability to communicate information and ideas in speaking so others will understand.
- · Problem Sensitivity The ability to tell when something is wrong or is likely to go wrong. It does not involve solving the problem, only recognizing there is a problem.
- · Deductive Reasoning The ability to apply general rules to specific problems to produce answers that

Source: Occupational Information Network: Veterinarians

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Tasks and Activities

Occupation specific tasks and the most important generalized work activities are listed for Veterinarians.

Occupation Specific Tasks:

- · Advise animal owners regarding sanitary measures, feeding, general care, medical conditions, or treatment options.
- Attend lectures, conferences, or continuing education courses.
- Collect body tissue, feces, blood, urine, or other body fluids for examination and analysis. Conduct postmortem studies and analyses to determine the causes of animals' deaths.
- Determine the effects of drug therapies, antibiotics, or new surgical techniques by testing them on
- Direct the overall operations of animal hospitals, clinics, or mobile services to farms.
- Drive mobile clinic vans to farms so that health problems can be treated or prevented.
- Educate the public about diseases that can be spread from animals to humans
- Establish or conduct quarantine or testing procedures that prevent the spread of diseases to other animals or to humans and that comply with applicable government regulations
- Euthanize animals
- · Examine animals to detect and determine the nature of diseases or injuries.
- Inoculate animals against various diseases such as rabies or distemper.
 Inspect and test horses, sheep, poultry, or other animals to detect the presence of communicable
- · Inspect animal housing facilities to determine their cleanliness and adequacy

- · Operate diagnostic equipment, such as radiographic or ultrasound equipment, and interpret the resulting
- Perform administrative or business management tasks, such as scheduling appointments, accepting payments from clients, budgeting, or maintaining business records. Plan or execute animal nutrition or reproduction programs.
- · Provide care to a wide range of animals or specialize in a particular species, such as horses or exotic
- · Research diseases to which animals could be susceptible
- · Specialize in a particular type of treatment, such as dentistry, pathology, nutrition, surgery, microbiology, or internal medicine.
- Train or supervise workers who handle or care for animals
- · Treat sick or injured animals by prescribing medication, setting bones, dressing wounds, or performing

Generalized Work Activities:

- · Making Decisions and Solving Problems Analyzing information and evaluating results to choose the best solution and solve problems
- · Getting Information Observing, receiving, and otherwise obtaining information from all relevant
- Documenting/Recording Information Entering, transcribing, recording, storing, or maintaining information in written or electronic/magnetic form.
- · Updating and Using Relevant Knowledge Keeping up-to-date technically and applying new
- knowledge to your job.

 Performing for or Working Directly with the Public Performing for people or dealing directly with the public. This includes serving customers in restaurants and stores, and receiving clients or guests

Detailed Work Activities:

- administer anesthetics
- administer injections
- administer medications or treatments
- advise animal owners regarding treatment of animals
- analyze medical data
- analyze patient activity
- apply traction
- calculate medical dosages
- communicate technical information
- conduct medical tests
- diagnose medical condition of patient
- diagnose spinal misalignments
- draw blood
- examine animals to detect illness, disease, or injury follow infectious materials procedures
- follow patient care procedures
- follow surgical procedures
- identify animal species
- identify livestock characteristics
- interpret medical laboratory test results
- make decisions
- make presentations on health or medical issues observe patient condition
- obtain information from clients, customers, or patients
- perform animal euthanasia
- perform minor surgery
- position patient for therapy
- prepare patient reports
- prescribe or recommend drugs, medical devices or other forms of treatment
- recognize disease or parasites in animals
- teach food or nutrition principles treat medical condition of patient
- understand animal habits or needs
- understand properties or composition of drugs
- use animal disease control techniques
- use clinical problem solving techniques
- use knowledge of investigation techniques
- use knowledge of medical terminology use medical diagnostic techniques
- use research methodology procedures in health care
- use sanitation practices in health care settings

Source: Occupational Information Network: Veterinarians

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Tools and Technology

Veterinarians View Detailed Report

Tools:

- Animal husbandry equipment Cattle chutes, Dehorners, Hoof picks, Hoof testers
- · Medical x ray units for general diagnostic use Digital x ray equipment, Portable veterinary x ray
- equipment, Stationary x ray equipment
 Surgical clamps or clips or forceps or accessories Bone clamps, Bone fragment forceps, Bone holding forceps, Dressing forceps, Hemoclips
- Veterinary injection or suction units or accessories Aspiration catheters, Ear syringes, Insemination equipment, Veterinary suction equipment
- · Veterinary nail trimmers or cutters Hoof knives, Hoof trimmers, Nail trimmers

Technology:

- Data base user interface and query software IDEXX Laboratories IDEXX VPM, Microsoft Access
- Electronic mail software Microsoft Outlook
- Internet browser software Web browser software

- Medical software American Data Systems PAWS Veterinary Practice Management, Butler Animal Health Supply DVM Manager software, Complete Clinic Software, Eklin Information Systems VIA, IDEXX Laboratories IDEXX Cornerstone

 Office suite software - Microsoft Office software

Source: Occupational Information Network: Veterinarians

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Education and Training

Occupation: Veterinarians

Typical education needed for entry: Doctoral or professional degree Typical work experience needed for a job in this occupation: None Typical on-the-job training once you have a job in this occupation: None

Related Instructional Programs:

- Comparative and Laboratory Animal Medicine Laboratory Animal Medicine Residency Program Large Animal/Food Animal and Equine Surgery and Medicine
- Poultry Veterinarian Residency Program
- Small/Companion Animal Surgery and Medicine Theriogenology Residency Program
- Veterinary Anatomy

- Veterinary Anesthesiology Residency Program Veterinary Behaviorist Residency Program Veterinary Biomedical and Clinical Sciences, Other
- Veterinary Clinical Pharmacology Residency Program Veterinary Dentistry Residency Program Veterinary Dermatology Residency Program

- Veterinary Emergency and Critical Care Medicine Residency Program
- Veterinary Infectious Diseases
- Veterinary Internal Medicine Residency Program Veterinary Medicine

- Veterinary Microbiology Residency Program
- Veterinary Microbiology and Immunobiology Veterinary Nutrition Residency Program
- Veterinary Ophthalmology Residency Program

- Veterinary Pathology Residency Program
 Veterinary Pathology Residency Program
 Veterinary Pathology and Pathobiology
 Veterinary Physiology
 Veterinary Practice Residency Program
 Veterinary Preventive Medicine Residency Program
 Veterinary Preventive Medicine, Epidemiology, and Public Health
- Veterinary Radiology Residency Program
- Veterinary Residency Programs, Other Veterinary Sciences/Veterinary Clinical Sciences, General Veterinary Surgery Residency Program
- Veterinary Toxicology Residency Program Veterinary Toxicology and Pharmacology Zoological Medicine Residency Program

Distribution of Educational Attainment

-	Percent of employees aged 25 to 44 in the occupation whose highest level of educational attainment is							
Occupation	Less than high school diploma	High school diploma or equivalent	Some college, no degree	Associate's degree	Bachelor's degree	Master's degree	Doctoral or professional degree	
Veterinarians	0.1%	0.1%	0.1%	0.1%	0.8%	1.3%	97.4%	
Health Diagnosing and Treating Practitioners	0.5%	2.1%	3.6%	8.2%	18.8%	17.5%	49.3%	
Healthcare Practitioners and Technical	1.1%	10.1%	15.6%	15.3%	20.7%	11.5%	25.7%	
Total, All Occupations	10.4%	27.4%	20.9%	8.9%	19.5%	8.2%	4.7%	

Find colleges, training schools and instructional programs.

Access additional Education Resources in the Career Resource Library.

Use the Financial Aid Advisor to help find funds for financing education.

WIA Eligible Training Provider List:

http://labor.idaho.gov/dnn/wia/CustomerServices/EligibleProviderLists/tabid/538/Default.aspx

Source: <u>Bureau of Labor Statistics</u>. <u>Office of Occupational Statistics and Employment Projections</u> (Education/Training Level, Educational Attainment); <u>National Center for Education Statistics</u> (Typical Instructional Programs)

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Related Occupation Profiles

Occupations with similar skill requirements

- Anesthesiologists Biological Technicians
- Medical and Clinical Laboratory Technologists
 Physician Assistants

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Web Resources

The following resources are related to occupations in the job family Healthcare Practitioners and Technical

Health Diagnosing and Treating Practitioners

Health Technologists and Technicians

Other Healthcare Practitioners and Technical Occupations

Health Diagnosing and Treating Practitioners

- AIDS Care Nurse, Nursing Spectrum Ambulatory Care Nurse, Nursing Spectrum Audiologist, American Medical Association
- Audiologists, Occupational Outlook Handbook
- Audiology, American Speech-Language-Hearing Association

- Becoming a Veterinarian, American Veterinary Medical Association

 Cardiac Rehabilitation Nurse, Nursing Spectrum

 Certified Registered Nurse Anesthetists, American Association of Nurse Anesthetists
- Chiropractor, Princeton Review

- Chiropractors, Human Resources and Skills Development Canada
 Chiropractors, Occupational Outlook Handbook
 Clinical laboratory scientist/medical technologist, American Medical Association
- Correctional Nurse, Nursing Spectrum Dentist, Princeton Review
- Dentist, American Medical Association
- Dentist, American Dental Association
- Dentists, Occupational Outlook Handbook
- Dentists, Job Futures
 Denturists, Human Resources and Skills Development Canada
- Dietitian/Nutritionist, American Medical Association
- Dietitians and Nutritionists, Occupational Outlook Handbook
 Dietitians and Nutritionists, Human Resources and Skills Development Canada
 Doctor of Optometry, Association of Schools and Colleges of Optometry
 Emergency Nurses for a Healthier Tomorrow
 Enterostomal Therapy Nurse, Nursing Spectrum
 Genetics Nurse, Nursing Spectrum
 Hospica Nurse, Projector Papiers

- Hospice Nurse, Princeton Review
 Hospice/Palliative Care Nurses, Nurses for a Healthier Tomorrow
 Infection Control Nurse, Nursing Spectrum
- Intravenous Therapy Nurse, Nursing Spectrum
- Intravenous Therapy Nurse, Nursing Spectrum
 Kinesiotherapist, American Medical Association
 Labor and Delivery Staff Nurse, Nurses for a Healthier Tomorrow
 Long-Term Care Nurse, Nursing Spectrum
 Managed Care Nurse, Nursing Spectrum
 Managed Care Nurse, Nursing Spectrum
- Medical Careers, Association of American Medical Colleges Medicine and Health, WetFeet.com

- Nephrology Nurse, Nursing Spectrum
 Nurse, Princeton Review
 Nurse Executive, Nurses for a Healthier Tomorrow
- Nursing, WetFeet.com
- Nutritionist, Princeton Review
- Occupational Health Nurse, Nursing Spectrum Occupational Therapist, American Medical Association Occupational Therapist, Princeton Review
- Occupational Therapists, Occupational Outlook Handbook Occupational Therapists, CareerZone Occupational Therapists, California Occupational Guide
- Oncology Nurse, Nursing Spectrum
 Oncology Nurse, Nurses for a Healthier Tomorrow
 Ophthalmic Nurse, Nursing Spectrum

- Optometrist, Princeton Revie
- Optometrists, Occupational Outlook Handbook
 Optometrists, Human Resources and Skills Development Canada
- Orthopaedic Nurse, Nurses for a Healthier Tomorrow
- Orthoptist, American Medical Association
- Otorhinolaryngology Nurse, Nursing Spectrum
 Pathology Professions, American Society for Clinical Pathology
 Pediatric Nurse, Nursing Spectrum

- Perianesthesia Nurse, Nursing Spectrum
 Perinatal Nurse, Nursing Spectrum
 Perioperative (O.R.) Nurse, Nurses for a Healthier Tomorrow
- Perioperative (O. R.) Nurses, Nurses for a Healthier Pharmaceuticals and Biotechnology, WetFeet.com Pharmacist, Princeton Review Pharmacists, Occupational Outlook Handbook Pharmacists, Job Futures Pharmacists, California Occupational Guide Physical Therapist, Princeton Review Physical Therapist, American Medical Association Physical Therapist, California Occupational Guide

- Physical Therapists, Affertical Medical Association Physical Therapists, CareerZone Physical Therapists, Occupational Outlook Handbook Physician, Princeton Review
- Physician Assistant, American Medical Association Physician Assistant, Princeton Review
- Physician Assistants, California Occupational Guide
- Physician Assistants, Occupational Outlook Handbook
- Physicians and Surgeons, Occupational Outlook Handbook Podiatrists, Occupational Outlook Handbook
- Primary Care and Office Nurse, Nursing Spectrum
- Psychiatric Nurse, Nursing Spectrum
- Psychiatric-Mental Health Nurse, Nurses for a Healthier Tomorrow

- Radiation Therapist, American Medical Association
- Radiation Therapists, California Occupational Guide
- Radiation therapists, Occupational Outlook Handbook
- Reconstructive Surgical Nurse, Nursing Spectrum Recreational Therapists, Occupational Outlook Handbook
- Registered Dietitian, American Dietetic Association Registered Nurses, Occupational Outlook Handbook Registered Nurses, Job Futures Registered Nurses, California Occupational Guide

- Rehabilitation Nurse, Nursing Spectrum
 Respiratory Nurse, Nursing Spectrum

- Respiratory Therapist, American Medical Association
 Respiratory Therapist, American Association for Respiratory Care
- Respiratory Therapists, Occupational Outlook Handbook Respiratory Therapists, California Occupational Guide School Nurse, Nurses for a Healthier Tomorrow

- Speech Language Pathologist, American Medical Association
- Speech-Language Pathologists, American Neutcal Association
 Speech-Language Pathologists, American Speech-Language Pathologists, Occupational Outlook Handbook
 Speech-Language Pathologists, CareerZone

- Staff Nurse, Nurses for a Healthier Tomorrow Subacute Care Nurse, Nursing Spectrum Telephone Triage or Advice Nurse, Nursing Spectrum
- Transplant Nurse, Nursing Spectrum Trauma Nurse, Nursing Spectrum Veterinarian, Princeton Review

- Veterinarians, California Occupational Guide
- Veterinarians, Occupational Outlook Handbook Veterinarians, Human Resources and Skills Development Canada

Health Technologists and Technicians

- Biological Technologists and Technicians, Job Futures
 Blood Bank Technology-Specialist, American Medical Association
 Cardiovascular Technologist and Sonographer, American Medical Association
- Cardiovascular Technologists and Technicians, California Occupational Guide Cardiovascular Technologists and Technicians and Vascular Technologists, Occupational Outlook
- Chemical Technicians, California Occupational Guide
- Clinical laboratory scientist/medical technologist, American Medical Association Cytotechnologist, American Medical Association
- Dental Hygienist, American Dental Association
- Dental Hygienist, American Medical Association
 Dental Hygienists, CareerZone
 Dental Hygienists, California Occupational Guide

- Dental Hygienists, Occupational Outlook Handbook
 Diagnostic Medical Sonographers, Occupational Outlook Handbook
 Diagnostic Radiologic Technologists, California Occupational Guide

- Dietetic Technician, American Medical Association
 Dietetic technician, Occupational Outlook Handbook
 Dietitians and Nutritionists, California Occupational Guide
- Electroneurodiagnostic Technologist, American Medical Association
- Emergency Medical Technician-Paramedic, American Medical Association Emergency Medical Technicians and Paramedics, CareerZone Emergency Medical Technicians and Paramedics, California Occupational Guide

- Emergency Medical Technicians and Paramedics, California Occupational Guide

 EMTs and Paramedics, Occupational Outlook Handbook

 Health Information Technician, American Medical Association

 Licensed Practical and Licensed Vocational Nurses, California Occupational Guide

 Licensed Practical and Licensed Vocational Nurses, Occupational Outlook Handbook

 Licensed Practical and Licensed Vocational Nurses, CareerZone

 Magnetic Resonance Technologist, American Medical Association

 Medical and Clinical Laboratory Technologists, California Occupational Guide

 Medical and Clinical Laboratory Technologists, California Occupational Guide

- Medical and Clinical Laboratory Technologists and Technicians, Occupational Outlook Handbook Medical Assistants, California Occupational Guide Medical Dosimetrist, American Medical Association
- Medical Laboratory Professions, American Society for Clinical Pathology
- Medical Laboratory Science Professional, American Society for Clinical Laboratory Science Medical Records and Health Information Technicians, California Occupational Guide Medical Records and Health Information Technicians, CareerZone

- Medical Records and Health Information Technicians, Occupational Outlook Handbook
- Neonatal Nurse, Nurses for a Healthier Tomorrow Nuclear Medicine Technologist, American Medical Association
- Nuclear Medicine Technologist, Afferican Medical Association

 Nuclear Medicine Technologists, Occupational Outlook Handbook

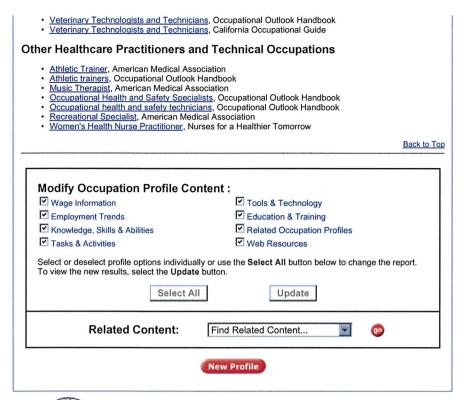
 Ophthalmic Dispensing Optician, American Medical Association

 Ophthalmic Medical Technician, American Medical Association

 Opticians, Human Resources and Skills Development Canada

- Opticians, Dispensing, Occupational Outlook Handbook
- Orthotist and Prosthetist, American Medical Association Orthotists and prosthetists, Occupational Outlook Handbook
- Paramedic, Princeton Review
- Perfusionist, American Medical Association
 Pharmacy Technicians, California Occupational Guide
 Pharmacy Technicians, Occupational Outlook Handbook
- Psychiatric Technicians, California Occupational Guide
- <u>Psychiatric Technicians and Aides</u>, Occupational Outlook Handbook <u>Radiographer</u>, American Medical Association
- Radiologic Technologists, Occupational Outlook Handbook
 Radiologic Technologists, CareerZone

- Registered Dietetic Technician, American Dietetic Association Respiratory therapy technicians, Occupational Outlook Handbook
- Surgical Technologist, American Medical Association
- Surgical Technologists, Occupational Outlook Handbook Surgical Technologists, California Occupational Guide
- Surgical Technology, Association of Surgical Technologists





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