



ZOO AND WILDLIFE MEDICINE INTERNSHIPS TARONGA WILDLIFE HOSPITAL SYDNEY

Taronga Conservation Society Australia

In the spirit of reconciliation, Taronga acknowledges the unique status of Australia's First Peoples as the original people of this land. We recognise their cultures, histories and ongoing relationship and obligations to the land and waterways.

Taronga Conservation Society Australia is a leader in the fields of conservation, research and environmental education. Taronga is constituted under the Zoological Parks Board Act 1973 as a statutory authority owned by the people of New South Wales and administered by the Department of Planning, Industry and Environment.

Taronga operates Taronga Zoo in Sydney and Taronga Western Plains Zoo in Dubbo. Taronga Zoo is a metropolitan zoo, on approximately 28 hectares of land overlooking Sydney Harbour and was first opened in 1916. It is home to over 5,000 animals from over 350 species, including native and exotic mammals, birds, reptiles, amphibians, fish and invertebrates.

In 100 years Taronga has evolved from a location of entertainment to a mature conservation and education hub.

We have a clear vision to help secure a shared future for wildlife and people with activities that span the fields of animal care, recovery, education, community engagement, guest experience and science.

Taronga Wildlife Hospital

The Taronga Wildlife Hospital at Taronga Zoo and the Taronga Western Plains Zoo Wildlife Hospital are part of Taronga's Welfare Conservation and Science Division. Also within this Division are our Animal Nutrition, Conservation and Recovery Programs, Population Development and Welfare, and Conservation Science teams. The Science team includes Conservation Research, Behavioural Studies, Australian Marine Mammal Research Centre, Wildlife Reproductive Centre, Conservation Biology, Terrestrial Ecology Citizen Science and the Australian Registry of Wildlife Health.

Taronga Wildlife Hospital (TWH) is responsible for the health of Taronga Zoo's animal population. There is a strong emphasis on preventative medicine and animal welfare. The Zoo's veterinary team has a wealth of experience in all aspects of zoo, wildlife and conservation medicine, including reproductive management, nutrition, physical and chemical restraint, clinical medicine and pathology. An advanced level of veterinary care is maintained through continuous critical evaluation against current best practice in zoo and wild animal medicine and pathology.

TWH also accepts sick, injured and orphaned native wildlife for treatment and rehabilitation. Our goals are to ensure the welfare of individual animals and that our interventions do not

perpetuate suffering; and to ensure that when released no harm is done to free-ranging conspecifics, sympatric species and ecosystems. Our wildlife program also contributes to a national wildlife disease surveillance database. A wide range of native wildlife including marine wildlife is admitted from the greater Sydney region and beyond. Advice and veterinary services are provided for wildlife conservation and recovery programs, internal and external Taronga approved research projects, marine animal stranding and rescue events, and animal confiscations. The TWH also provides consultancies to other zoos, fauna parks and aquaria, and quarantines animals coming into the zoo from within Australia and overseas.

The TWH is a purpose built, well equipped veterinary hospital and quarantine facility. The hospital includes a range of hospital housing for large and small animals, examination room, surgery, clinical pathology laboratory, quarantine facility (approved by the Australian Government for importation from overseas), necropsy room, dispensary, offices and staff amenities. A separate building provides hospital and rehabilitation wards and examination room for native wild animals. A brand-new Hospital is currently under construction, due to open at the end of 2026.

Our hospital team comprises clinical veterinarians, veterinary pathologists, hospital and laboratory managers, pathology and laboratory technicians, nutritionists, veterinary nurses, and many other support staff.

Our veterinary pathologists provide a gross pathology service for Taronga Zoo and histopathology service for both zoos. Taronga is one of the only zoos in Australasia to employ a full-time nutritionist. The TWH has a clinical pathology laboratory, and most samples are processed in-house. This includes haematology, biochemistry, microbiology and parasitology. The nursing team is highly trained in husbandry and veterinary nursing care of native and exotic animals.

Taronga also operates the Australian Registry of Wildlife Health (the Registry), which provides a vital diagnostic service for free-ranging wildlife, contributes to science-based wildlife management, and is a wildlife health research centre. The Registry is a valuable resource for wildlife health, disease surveillance, wildlife pathology, and capacity building in wildlife health and disease diagnosis.

TWH staff participate in various veterinary and wildlife education programs. These include training veterinary students through our Clinical Placement Program and foreign veterinarians through our Foreign Zoo Veterinarian Training Program. Our team frequently presents workshops and talks at conferences and seminars both nationally and internationally, and to local animal care and interest groups. Several tertiary education programs are offered through the Taronga Institute of Science and Learning, a state-of-the-art facility for education and research.

Internship Program Outline

Taronga Zoo's veterinary student internship program is available to final year veterinary students who have a passion for wildlife and wish to pursue a career in conservation, zoo and wildlife medicine. The program provides a unique opportunity for specialised professional training and experience in a world class zoo. This will include preventative medicine; clinical medicine and surgery; reproductive management; capture, physical and chemical restraint; clinical and anatomic pathology; nutrition; wildlife rehabilitation; and ex situ conservation medicine. The experience extends across Australian native and exotic mammalian, avian, reptilian and amphibian taxa. The residency program is based at Taronga Zoo in Sydney. A similar program is run at Taronga Western Plains Zoo in Dubbo.

Students will be supervised by one of the veterinarians and may spend time with any of the TWH staff to gain maximum exposure to all aspects of conservation, zoo and wildlife medicine.

Students are trained under the instruction and guidance of the following staff:

Dr Timothy Portas	Senior Veterinarian
Dr Frances Hulst	Veterinary Officer
Dr Gabrielle Tobias	Veterinary Officer
Dr Kimberly Vinette Herrin	Veterinary Officer
Dr Rebecca Robey	Veterinary Officer
Dr Lydia Marwood	Veterinary Pathologist
Ms Michelle Shaw	Nutritionist
Mr Paul Thompson	Laboratory Manager
Ms Elizabeth Hall	Wildlife Rehabilitation Coordinator

A Student Information and Skills Book will be provided on commencement of the internship, which includes a Skills list that sets out the general learning objectives of the program. Completion of the skills list will require some background reading and research by the student as well as the undertaking of practical skills under the guidance of TWH staff.

Students actively participate in clinical procedures and are given opportunities when available, to perform skills such as venipuncture, injection, radiology and basic surgery. Where possible, wildlife cases are allocated to students. Students also participate in necropsies, pathology rounds, clinical pathology and nutrition. Additional learning opportunities may arise depending on cases and students are encouraged to gain as much experience as possible through observation, self-directed research and discussion with staff.

Wherever possible, students will be given the opportunity to fulfil all requirements stipulated by their university. **If there are no specific requirements**, students will:

- Complete a communications task (e.g. deliver a presentation to staff, produce an information brochure, or write a short article for publication in a newsletter).
- **OR** undertake a brief investigation of a topic of significance to zoo and wildlife medicine (a list can be provided prior to commencing an internship).
- **OR** write up at least two case reports.

Daily work routine

Student working hours are 7:40am to 4:00pm, Monday to Friday. Weekend or public holiday attendance is not required.

Three clinical veterinarians are rostered on each weekday, together with multiple veterinary nurses/keepers. On weekends a veterinarian works between 10am -4pm and two nurses are rostered to work.

The day starts with an all-hospital muster at 7.40am, then clinical rounds are carried out in the hospital and in the zoo grounds. Procedures for the day generally take place in the hospital between 10:30am and 12:15pm, although larger procedures are usually scheduled earlier in the day. If necessary, procedures continue in the afternoon. Necropsy examinations usually take place in the early afternoon.

Students are able to participate in all aspects of direct animal work at the discretion of the attending veterinarian and may have the opportunity to attend selected meetings and talks.

Student Requirements

Students must have had a tuberculosis test (Taronga's preferred test is QuantiFERON-TB Gold) within 12 months prior to commencement of their internship. Vaccination against Q Fever, Rabies and Tetanus is encouraged.

Travel and accommodation must be organised by students prior to arrival. We have a list of contacts for accommodation which can be provided by request to successful candidates.

For further information and other enquiries, please contact Clare Brown, Wildlife Health Assistant, Taronga Wildlife Hospital. Email: twh@zoo.nsw.gov.au Phone: 61 2 9978 4785.

Are you are interested in a career in veterinary pathology and diagnostic science? A pathology focused internship may be available. Contact the Australian Registry of Wildlife Health arwh@taronga.org.au