IOWA STATE UNIVERSITY
Lloyd Veterinary Medical Center

Large Animal Research Internship: Program Specifics

Please see "House Officer Programs: General Information" for basic information common to all internship and residency programs. The following information highlights specific program requirements of the Large Animal Research Internship, which is designed to provide training in clinical and basic science large animal research

Program Director: Dr. Jamie Kopper DVM PhD DACVIM (LAIM) DACVECC (LA) (jkopper@iastate.edu; 515-291-9084)

Additional faculty diplomates serving as supervisors and potential advisers of the program:

- Dr. Theresa Beachler DVM PhD DACT
- Dr. Jamie Kopper DVM PhD DACVIM DACVECC
- Dr. Vengai Mavangira DVM PhD DACVIM
- Dr. Brett Sponseller DVM PhD DACVIM
- Dr. Jarrod Troy DVM DACVS
- Dr. David Wong DVM MS DACVIM DACVECC

Prerequisites and Application

- Candidates must have successfully completed a DVM, or equivalent, degree from an accredited veterinary school and be eligible for veterinary licensure in the state of Iowa.
- Candidates must have successfully completed a one-year large animal (equine or mixed) internship program.
- The intern for this program should have a strong interest in pursuing a large animal residency program following this internship.
- This program will be filled outside of VIRMP for the 2023 application cycle.
- There is no financial support for VISAs for the 2023 application cycle.

Clinical program requirements

Intern Year – 52 weeks
42 weeks: Research (equine, food or fiber animal related)
6 weeks: May be used for elective clinical rotations within the equine hospital based on the interns interests. Additional weeks may be available dependent upon interns research progress.
2 week: Orientation, IACUC, clinical trials research training certificate and other applicable training
2 weeks: Vacation

Seminar/Rounds requirements

Rounds type	Frequency	Day/Time	Commitment
HO Seminar/Case Presentation	Weekly	Thursdays @ 8am	Required
Large Animal Medicine Journal Club	Weekly	Friday @ 8am	Required

Morbidity & Mortality Rounds	Monthly	2nd Tuesday @ 8am	Required
Equine Surgery Journal Club	Weekly		Required

Goals and Objectives:

- This 1-year research internship program will consist primarily of large animal clinical and basic science research. Additional opportunities will exist for limited (6 week) clinical rotations based on the intern's interests and goals.
- The primary responsibilities and opportunities afforded by the internship program include active participation in ISU Large Animal research efforts that involve both client-owned animals, donated research animals and basic science.
- The intern will actively participate in and support large animal research of carrying through independent (mentored) research, assisting with clinical research projects, data collection and analysis and manuscript preparation and submission.
- The intern will work closely with Dr. Jamie Kopper and the faculty clinicians leading individual research projects. The intern's involvement in projects will be scheduled so that their time is both maximized and protected as well as to ensure that expectations and objectives are well communicated. Prioritization of the interns time and projects will be dependent on which projects are active at a given time – the intern supervisor (Dr. Jamie Kopper) will assist with coordinating the intern's distribution of time on projects. Ongoing projects that the intern may have the opportunity to take part in include (but are not limited to): Equine intestinal permeability and cell culture, Probiotics, Equine neonatology, Equine pharmacokinetics/dynamics with analgesia and antimicrobials, Assessment modalities for pregnant mares, EHV-1 vaccine development and *C. difficile* zoonotic work.
- To maximize the intern's preparation for a residency, participation in Large Animal Medicine and Surgery journal clubs is expected, unless there is a time-sensitive research commitment.
- The intern will operate under the supervision of the large animal faculty but is expected to demonstrate initiative and independence in the performance of their duties. This will necessitate independent study, a high degree of organizational skills, excellent communication skills and the ability to work in a busy clinical and research setting.
- This program will hope to help make the intern an excellent candidate for large animal specialty residency consideration.

Scholarship and Teaching Requirements

- Teaching and Presentations:
    - The intern will present one 25-minute presentation during house officer seminar/case presentation rounds
    - When on a clinical service (6 weeks) the intern will participate in the instruction of students.
    - If interested, the intern may have the opportunity to take part in didactic teaching, to build their portfolio.
    - The intern is required to attend and participate in Large Animal Medicine & Surgery journal club.
- Research
    - The intern is expected and will be supported to have their own primary (first author) investigative research project suitable for publication and presentation at a scientific meeting.

    - The intern is expected to and will be supported to take part in as many projects as they are able to, so as to maximize and diversify their experiences – authorship will be granted commiserate with their participation in these projects and communicated up front.
    - In addition to the mentors listed and their individual laboratory space, the department of Veterinary Clinical Sciences has a shared laboratory space that is managed by a research scientist (Dr. Dipak Sahoo, PhD) who will provide mentorship and support to the intern with regards to basic science and bench top research.
- The intern is encouraged to apply for a specialty training program that matches their clinical interest.

Completion

- The intern will be awarded a certificate of internship upon successful completion of this 1-year program.