The purpose of the Mary E. Miller Chair of Excellence in Equine Health is to enhance equine health through research and teaching of the latest management innovations. Research will focus on lameness, the number one health expense in the equine industry. Each year many horses are rendered useless temporarily or permanently because of poor management in health or training. The person named to this chair will be a Ph.D. holder in nutrition or exercise physiology or a veterinarian who has specialized in lameness or another appropriate field within the industry.

The outreach of the Mary E. Miller Chair of Excellence will be to extend the knowledge of the industry through research and teaching needed by the horse industry. The chair will collaborate on lameness studies with area veterinarians and the University of Tennessee College of Veterinary Medicine. Seminars, demonstrations, professional papers, and periodical articles will be used to reach the industry.
The purpose of the John C. Miller Chair of Excellence in Equine Reproductive Physiology is to assist the equine industry in making breeding more efficient. Today only about 50 to 60 percent of mares bred actually produce live foals, far below other livestock species. The latest technology and techniques need to be researched and taught to MTSU students and industry as well. The person named to this chair will be a Ph.D. holder in reproductive physiology or a veterinarian with expertise and experience in research and teaching.

Outreach of the chair will be extensive. To facilitate accomplishment of our goal to enhance the breeding efficiency of mares, we must connect and collaborate with industry. Seminars, lectures, demonstrations, professional papers, and periodical articles will be used to disseminate information pertinent to the processes of breeding horses.

An example of technology and technique that we could share with industry would be the facilitation of embryo transfer from donor mares to surrogate mares. Cutting-edge research and technology will focus on stallions as well as mares.

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