

## GOOD LABORATORY PRACTICES (GLP)

To ensure research that is both reproducible and compliant with basic and regulatory quality standards, such as the FDA's Good Laboratory Practices regulations (Code of Federal Regulations volume 21 Part 58), a system of safeguards is in place. The GNL Regulatory Compliance Core assists investigators and GNL scientific cores with preparations for studies requiring compliance with GLP regulations to secure product licensure. Individual GNL service divisions, such as Aerobiology and Preclinical Studies, are implementing GLP quality elements into day-to-day activities and will support GLP compliant studies in the future.



### CONTACT INFORMATION

For information on working with the GNL through [contract](#) or [collaboration](#), please contact:

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*Local discoveries. Global impact.*

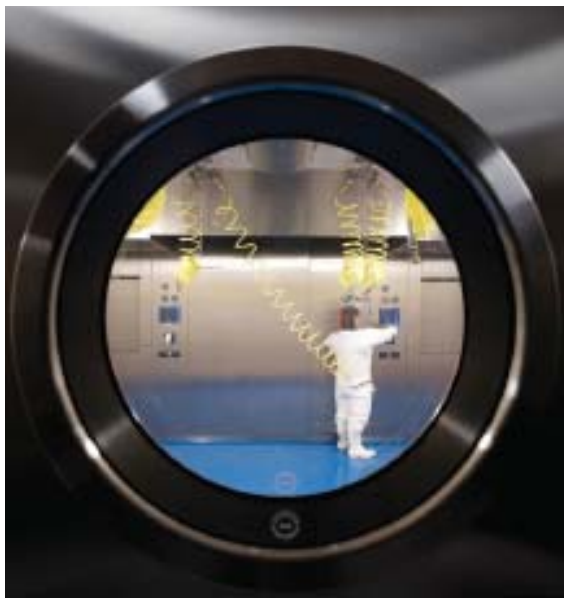
# GNL



**Opportunities for  
collaborations and  
partnerships!**

[www.utmb.edu/gnl](http://www.utmb.edu/gnl)

**utmb** Health  
Galveston National Laboratory



**THE GALVESTON NATIONAL LABORATORY** (GNL) is open for business! Located on the campus of the University of Texas Medical Branch (UTMB) in Galveston, Texas our state-of-the-art facilities and our world renowned team of researchers and staff serve as a national and international product development resource for infectious disease researchers and commercial partners.

The GNL aims to be your partner and service provider in the advancement of discovery and testing of diagnostics, treatments and vaccines for the infectious diseases impacting global health. With more than 80,000 net square feet of BSL2, -3 and -4 research space (both select and non-select agent), we are looking for collaborations and partnerships in basic research and product development where biocontainment is needed.

UTMB is also home to the **NATIONAL BIOCONTAINMENT TRAINING CENTER**, a world-renowned resource for biosafety and biocontainment engineering training. This unique center is available to prepare infectious disease scientists and engineers to work safely in high and maximum-containment research laboratories worldwide.

Our facilities are unique and our service is unsurpassed. We want to work with you!

## NEED BIOCONTAINMENT? WE ARE PLEASED TO OFFER THE FOLLOWING SERVICES:

**AEROBIOLOGY** We offer aerosolization services to researchers examining BSL2, -3 and -4 level bacteria and viruses via inhalational exposure. We use specialized equipment to expose models to various pathogens including select agents such as anthrax, plague and Venezuelan equine encephalitis, to allow examination of disease mechanisms and to evaluate the efficacy of potential countermeasures.

**ASSAY DEVELOPMENT (AD)** We offer custom designed assays and screening tools for researchers who study select or emerging disease agents. AD personnel generate assays that are standardized, reproducible and useful in medium- to high-throughput screening. While the emphasis is on developing low-containment BSL2 assays, AD also designs and tests assays suitable for BSL3 and BSL4 containment.

**EXPERIMENTAL PATHOLOGY (EP)** We are equipped to offer technical support, training and diagnostic expertise in experimental histopathology, tissue culture, and advanced microscopy for researchers. EP offers routine histological services and immunohistochemistry analyses, as well as state-of-the-art microscopy, e.g., laser capture microscopy using IR and UV lasers. In addition, diagnostic and etiological assessments from our experts are available to public health entities in the event of disease outbreaks.

**IMAGING** Our state-of-the-art imaging unit provides advanced optical analysis for cellular and tissue imaging of fixed preparations and dynamic studies in live specimens as well as *in vivo* whole-animal studies at BSL2, -3 and -4 levels. We offer confocal and multiphoton microscopy imaging systems at the BSL2 and BSL3 levels for molecular imaging and microscopy, an IVIS 200 system for *in vivo* small animal molecular optical imaging, a micro PET/CT whole-animal imaging system, digital X-ray, and ultrasound equipment. Also available is a full complement of gel-imaging capabilities as well as traditional X-ray services.

**INSECTARIES SERVICES (IS)** We provide expert consultation and state-of-the-art equipment for research into arthropod-borne biothreat agents and emerging infectious diseases. Our team facilitates research by biodefense investigators who require any level of biocontainment for studies with mosquito, tick and other arthropod vectors by either providing expertise and/or training for the researchers' own personnel. IS personnel also serve as a readily available advisory resource to national and local agencies in the event of bioterrorism or emerging disease emergencies.

**PRECLINICAL STUDIES (PS)** We are equipped to work with you to validate vaccines, diagnostics and therapeutics against biodefense and emerging disease agents in animal models. Our expertise includes molecular genetics, reverse genetics capability for various RNA viruses to study mechanistic of drug action, surgical implantation of telemetric devices, as well as conducting laparoscopic, endoscopic and ultrasound-guided tissue biopsies. We provide scientific expertise for study design and real-time data capture from experiments with minimally invasive techniques. We access, as appropriate, the other GNL services such as those provided by the animal support team, which has facilities for both small animals and non-human primates, and the aerobiology services team.



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