The Summer experience in Antibiotic Discovery and Development (SEADD) is an engaging, college-level program designed to provide high school students with the knowledge and skills needed to make an informed decision about a career in the natural sciences. Students will learn about the broad range of careers and experimental techniques involved in pharmaceutical development from lead compound discovery to FDA approval and commercialization through sixty hours of curriculum with a focus on the chemistry, biochemistry, molecular biology, and microbiology. Students can expect full immersion with hands-on activities, guided instruction, and guest lectures from area professionals.

The program breaks down into two over-arching project areas:
- Extraction of a natural antibacterial, semi-synthesis to alter biological activity, and characterization of the change in activity – primarily chemistry and biochemistry
- Isolation and identification of soil bacteria which naturally produce antibiotics and other pharmaceutically useful chemicals – primarily molecular biology and microbiology

Two sessions will be offered, each with an enhanced focus on one of these two project areas to make the most of the available facilities. The UT Arlington session will focus on chemistry and biochemistry; while the GSNETX session at Camp Whispering Cedars session will focus on molecular biology and microbiology.

Each session consists of classes twice-a-week for five weeks, for a total of 10 classes. Daily schedule is 9am – 4pm with a break for lunch.

Girl Scouts of Northeast Texas
Girls-only Session*
Mondays and Wednesdays from June 11th- July 18th, no class the week of July 4th
Located at Camp Whispering Cedars 6010 Whispering Cedars Drive, Dallas, TX 75236

University of Texas at Arlington
Co-ed Session
Tuesdays and Thursdays from July 10th - August 9th
Located at 700 Planetarium Place, Arlington, TX 76019

Applications accepted from March 23rd - April 20th, 2018; admissions decisions made by May 1st.

$750 tuition
*Discount available for active members of GSNETX
For more information, please contact Lauren Foland at The Shoulders of Giants

www.tsogiants.org
lauren@tsogiants.org
214-575-5444