

DOCTOR OF PHILOSOPHY IN MOLECULAR BIOLOGY

Web Site: <https://twu.edu/biology/graduate-programs/doctor-of-philosophy-in-molecular-biology/>

Marketable Skills

Defined by the Texas Higher Education Coordinating Board's 60x30 Strategic Plan (<https://reportcenter.highered.texas.gov/agency-publication/miscellaneous/theccb-60x30-strategic-plan/>) as, "Those skills valued by employers that can be applied in a variety of work settings, including interpersonal, cognitive, and applied skills areas. These skills can be either primary or complementary to a major and are acquired by students through education, including curricular, co-curricular, and extracurricular activities."

- a. Demonstrate critical thinking by using logic and reasoning to interpret scientific results, evaluate primary literature, and identify alternative explanations for given results.
- b. Conceive, design, and perform properly controlled experiments for testing a hypothesis using modern scientific instruments and methods.
- c. Work collaboratively as part of a team to perform, analyze, and present scientific results and research outcomes.
- d. Demonstrate leadership on scientific projects and the ability to supervise others in coordinated group efforts.
- e. Understand research regulations and comply with all laboratory safety guidelines.