

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/thecb-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."

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