



GEORGIA  
PIEDMONT  
TECHNICAL COLLEGE

**NEW FOR FALL 2021**

**FIND YOUR WAY FORWARD WITH  
RESIDENTIAL BUILDING DESIGN**

# PROGRAM SNAPSHOT

Residential building technician job responsibilities include the creation and revision of production drawings, research for permit, bid and construction and much more!

- **First and only program** of its kind in the U.S.
- **100% online** program
- Associate degree in **less than 2 years**
- Program written and taught by **industry professionals**

*There's more! See flipside for class listing and career outlook.*



#### HAVE A QUESTION?

Contact New Media Program Director  
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THE WAY   
FORWARD

[gptc.edu](http://gptc.edu)

# Residential Building Design Technology CURRICULUM



## **RBDT 1100 - Introduction to Design**

Establishes the fundamentals of manual delineation, principals and elements of design, visualization skills, and terminology associated with residential building design and construction.

## **RBDT 1200 - Fundamentals of Architectural Drawing**

Builds on the fundamentals of design and delineation with the introduction of object-based CAD.

## **RBDT 1210 - Applied History of Residential Design**

Teaches an applied history of residential designs that will provide an understanding of the how and why of the modern techniques that are used today.

## **RBDT 1300 - Residential Composition**

Teaches the mechanics of residential delineation. Spatial relationships through the use of bubble diagrams and site analysis are examined.

## **RBDT 1310 - Wood Construction**

Covers the structural aspects of residential wood framing.

## **RBDT 1320 - Sustainable Design**

Covers how sustainable design methods used in residential planning can impact the environment in positive ways.

## **RBDT 2100 - Internship**

Provides practical application of material previously covered in the program.

## **RBDT 2110 - Portfolio**

Assists students in the preparation of a professional portfolio used to showcase their work to potential employers.

## **RBDT 2200 - Presentation Techniques**

Addresses the skills necessary to present and communicate effectively with clients and coworkers.

## **RBDT 2200 - Capstone Project**

Students will work on a studio project that will showcase the skills they have acquired throughout the course of the program.

## **RBDT 2210 - HVAC / Plumbing / Electrical**

Covers the basics for residential HVAC, plumbing, and electrical systems.

## CAREER OUTLOOK

**Graduates** of the program would work for **residential architects and building designers** in entry-level positions, serving as residential design **technicians**. Over time, responsibilities could expand to include **design** and **management** responsibilities that may provide a pathway to become a building designer in a firm, an independent contractor, or an **entrepreneur**.

Unlike drafters, design technicians would be educated toward an **architecture-oriented** professional track that could provide a path to registration as a licensed architect. Georgia has seen **double-digit growth** in the need for new residential designers and technicians.

Much of this current **demand** is actually being served by out-of-state professionals taking advantage of the internet and CAD technology. Growth in state for the last 5.5 years has averaged **13.6% annual increase**.



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