

# CIVIL DESIGN TECHNOLOGY

## CAREER PATHS

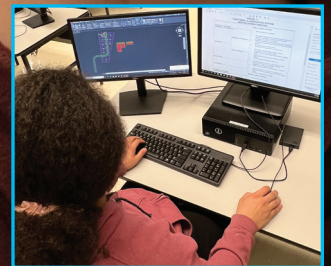
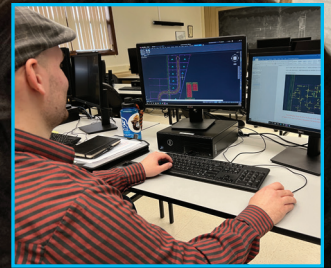
CIVIL DESIGNERS  
CAD TECHNICIANS  
SURVEY TECHNICIANS  
DESIGN ENGINEERING TECHNICIANS

## SALARY

\$60,700\*  
MEDIAN ANNUAL INCOME

## JOB GROWTH

2022-2032: 1%\*

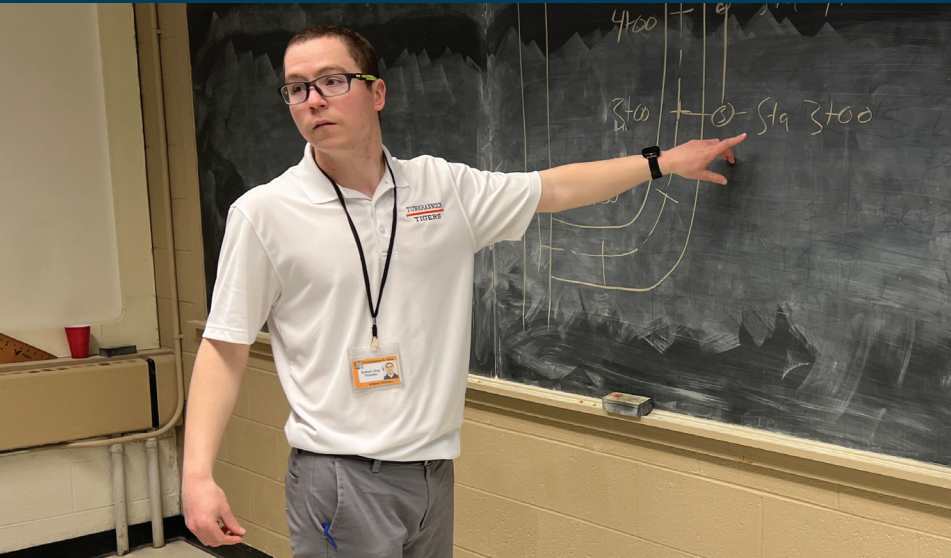


SCAN FOR YOUR FUTURE



\*2024 Bureau of Labor Statistics  
Johnson College does not discriminate with regard to race, color, national origin, sex, or disability.





## PROGRAM OBJECTIVE

The Civil Design Technology program prepares students as entry-level technicians in the field of civil engineering. This program provides the foundation for applying basic engineering principles and technical skills in support of civil engineers engaged in designing and executing public works projects such as highways, dams, bridges, tunnels and other facilities. The program also emphasizes professional interpersonal skills.

## READY. SET. WORK.

**Goal 1:** Graduates will acquire the skills necessary to obtain an entry-level position in the civil design field.

**Goal 2:** Graduates will demonstrate professional behavior and ethics in order to meet the challenges of work within their field.

**Goal 3:** Graduates will acquire critical thinking and decision-making skills.

Applicants are encouraged to arrange a campus visit and a personal information session with a Recruitment Advisor. Appointments may also be made to meet with appropriate faculty and current students.

## CAREER OPPORTUNITIES

Graduates work as civil designers, CAD technicians, survey technicians, design engineering technicians, or similar roles in the civil engineering industry. Typical employers in the civil design career field are civil design and engineering firms, structural engineering companies, environmental engineering firms, surveyors, consulting firms, construction companies, and government design agencies.

## PROGRAM COURSES

CREDITS

### SEMESTER 1

Introduction to Computer Assisted Drafting (CAD)	2
Introduction to Computer Assisted Drafting (CAD) Lab	2
Contract Drawings	3
Introduction to Civil Design	3
English Composition	3
College Algebra I and Trigonometry	3
First-Year Experience	1

### SEMESTER 2

Residential Planning	2
Residential Planning Lab	2
Project Estimating	3
Technical Sketching	3
Public Speaking	3
Trigonometry	3
Statics & Strength of Materials	3

### SEMESTER 3

Architectural History	3
Civil 3D	2
Civil 3D Lab	2
Surveying & Mapping	3
Construction Materials and Management	3
Erosion and Sediment Control	3
Introduction to Business	3

### SEMESTER 4

Elective	3
Hydraulics & Hydrology	2
Hydraulics & Hydrology Lab	1
Civil 3D II	2
Civil 3D II Lab	2
Internship	4
Business Research & Report Writing	3

**MINIMUM CREDITS TO GRADUATE 70**

This semester layout is based off of a fall start. Students who start in the spring will be required to attend an additional semester to complete their degree.

There may be special admission requirements for this program. Please speak with a Recruitment Advisor by calling **570-702-8856** or visit our website [johnson.edu](http://johnson.edu) to review our requirements.