

BUILDING & CONSTRUCTION TECHNOLOGY (BCT)... NOW WHAT?**What is BCT?**

Building and Construction Technology (BCT) professionals are multifaceted. Through the study of science, technology, business, management, and design, and guided by the principles of resource efficiency and environmental sensitivity. BCT professionals ensure that the materials and systems used in our buildings are best suited to the needs of each project in terms of safety, efficiency, sustainability, and cost effectiveness.

Graduates of the BCT program at UMass Amherst enjoy an applied, project-based learning environment, while receiving a strong technical and scientific foundation for future careers in construction management, sustainable building design, and materials technology. BCT students are involved in virtually every aspect of the built environment: construction management, sustainable building planning, engineered wood design, building energy performance evaluation, building products distribution, and research and development. It is the integration of technical understanding with general business acumen that makes BCT graduates uniquely desirable to employers.

What Can I Do With A Bachelor's Degree In BCT?

Materials Specialist	Town Planner	CAD (Computer-Aided Drafting) Technician
Sustainable Planner	Materials Research	Assistant to Civil Engineer
Builder	Technical Report Writer	Safety Inspector
Construction Manager/Supervisor	Building Planner	Permit Provider
Project Overseer	Environmental Assessor	Solar Installer
Building Inspector	Site Surveyor	Design Assistant
Contractor	Drafter/Architect's Assistant	Real Estate Associate
Cost Estimator	Environmental Engineer's Assistant	
Supply Sales	Blueprint Production	
Building Services Engineer	Site Design	
Facilities Manager	GIS Mapping	
Consultant		

Who Could I Work For?

Self-Employed	Solar Energy companies	OSHA
Construction companies	Alternative energy/energy efficiency services	
Design and build companies	Schools, businesses	
Civil engineering contractors	Water district	
Project management consultancies	Highway department	
Housing associations	Zoning board	
Health authorities	Farms	
University construction	Materials suppliers	
Towns and States	Logistics and distribution	

Where might I do an internship?

UMass Amherst BCT majors have done internships at the following sites:

Amherst (Town of)	Interstate & Lakeland	Northeast Sustainable Energy
AMS Showcase	Lumber	Association
Axis Builders	JK Scanlan Company, LLC	Office Max
Barr & Barr, Inc.	Kenney Masonry, LLC	Pulte Homes
Bayshore Demolition	Kohl Construction	Shawmut Design &
Blanchard Contracting	Lampasona Concrete Corp.	Construction
CampusLIVE Inc	Liquid Landscape Designs	UMass Amherst Campus
CSG Systems	Macomber Builders	Sustainability Initiative
F R Wilson Construction	Marlborough Department of	Weitz Company
Forest Moon	Public Works	White Oak Timber Frames
Integrity Development and	Mullaney Corporation	William A. Berry & Son, Inc.
Construction Inc	Nebraska Renewable Energy	Work of Art Builders
	Systems (NRES)	

Career Planning Resources & Websites

BCT Job Board, Employers, Career Paths (Under Students tab see several student chapters of professional organizations)	http://bct.eco.umass.edu/for-students
UMass Amherst CNS Career Center	www.cns.umass.edu/careers
UMass Handshake Database of Internships & Jobs	https://umass.joinhandshake.com/
What Can I Do With This Major?	https://www.umass.edu/careers/planning
<i>(Click on "What Can I do with this Major" icon on the right-hand column.)</i>	
FOCUS2 Career and Education Planning	www.umass.edu/careers/planning for sign-in button
CNS Completed Research/Internships:	https://secure.cns.umass.edu/webforms/internships
UMass Amherst Career Services Events Calendar	www.umass.edu/careers
Bureau of Labor Statistics Occupational Outlook Handbook	www.bls.gov/ooh/construction
O-Net: "Building"	www.onetonline.org/find/quick?s=building
Massachusetts Career Information System (Click Mass Resident to login with "Amherst/01003" Then click "Occupations" or "Assessments")	http://masscis.intocareers.org
Finding Independent Lab Research On Campus	www.umass.edu/biochem/undergraduate/lab
BCT Mailing List	https://bct.eco.umass.edu/about-us/bct-email-list/
BCT Facebook (news)	www.facebook.com/UMassBCT
BCT Twitter (news)	https://twitter.com/umassbct?lang=en
BCT LinkedIn Group (networking) (Must log in to LI)	https://www.linkedin.com/groups/6591054
Industry Certifications and Licenses	http://bct.eco.umass.edu/for-students/cert
AGC of America on Building Contractors	www.agc.org/node/24371

BCT Job Search Resources

UMass Handshake Database of Internships & Jobs	https://umass.joinhandshake.com/
Mass Clean Energy Center Jobs Board	http://www.masscec.com/work-clean-energy/jobs
Building Performance Institute (Industry Certifications)	www.bpi.org/greencollar.aspx
Construction Management Association of America	http://cmaanet.org/career-hq
Forest Products Society	http://jobs.forestprod.org

Local Job Search Resources

Center for Ecological Technology	www.cetonline.org
Western Mass Green Consortium MeetUp	www.meetup.com/Western-Mass-Green
Local BCT Internships	www.gcc.mass.edu/internships/list

General Job Search Engines

<i>One-Stop Career Centers (search by zip code)</i>	www.careeronestop.org/jobsearch/findjobs
<i>Indeed</i>	www.indeed.com
<i>SimplyHired</i>	www.simplyhired.com

Finding Internships

<i>MassCEC Paid Internships Program</i>	https://www.masscec.com/clean-energy-internship-program
<i>MassCEC Resume Board</i>	https://www.masscec.com/work-clean-energy/resumes

BCT Professional Organizations

Local Organizations

Building Energy Conference (NYC & Boston)	http://nesea.org/buildingenergy-conference
Green Drinks Northampton (Local networking!)	www.meetup.com/Western-Mass-Green
GCC Renewable Energy & Energy Efficiency Program	www.gcc.mass.edu/renewable-energy
Northeast Sustainable Energy Association (Greenfield)	www.nesea.org
Western Mass Green Consortium	http://westernmassgreenconsortium.org

National Organizations

Assoc of Construction Industry Certified Professionals	www.acicp.org
Associated General Contractors of America	www.agc.org
Building Performance Institute	www.bpi.org/home_pros.aspx
Construction Management Association of America	http://cmaanet.org/career-hq
Forest Products Society	www.forestprod.org
International Renewable Energy Council (IREC)	www.irecusa.org
National Association of Home Builders	www.nahb.org
N. American Board of Certified Energy Practitioners	www.nabcep.org
National Renewable Energy Lab	www.nrel.gov

US Green Building Council
BCT List of Professional Associations
List of Additional Professional Organizations

www.usgbc.org
<http://bct.eco.umass.edu/links/associations>
<http://construction.calpoly.edu>

BCT Professional Journals and Resources

Builder Online
Building Green
Green Building Advisor
Materials Safety Data Sheets
MatWeb Material Property Data
NESEA Sustainable Green Pages (for Northeast)
Tiny House Blog

www.builderonline.com
www2.buildinggreen.com/campus
www.greenbuildingadvisor.com
www.ilpi.com/msds/#What
www.matweb.com
nesea.org/greenpages
tinyhouseblog.com

What Do Employers Look For? (NACE 2020 Job Outlook for Students)

TOP 10 THINGS EMPLOYERS LOOK FOR ON YOUR RESUME

- ✓ Problem-solving skills
- ✓ Ability to work in a team
- ✓ Strong work ethic
- ✓ Analytical/quantitative skills
- ✓ Communication skills (written)
- ✓ Leadership
- ✓ Communication skills (verbal)
- ✓ Initiative
- ✓ Detail-oriented
- ✓ Technical skills

Source: Job Outlook 2020, 2019 Internship & Co-op Report, and 2019 Resolving Benchmark Survey
Courtesy of the National Association of Colleges and Employers | www.naceweb.org

EXPERIENCE IS (ALMOST) REQUIRED

When employers have equally qualified candidates, they choose the candidate with internship experience. In 2019, **56 percent of interns** and **40 percent of co-op students became full-time, entry-level hires.**

56% INTERNS

40% CO-OP

Source: Job Outlook 2020, 2019 Internship & Co-op Report, and 2019 Resolving Benchmark Survey
Courtesy of the National Association of Colleges and Employers | www.naceweb.org