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?

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

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:**

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

### Career Planning Resources & Websites

- **BCT Job Board, Employers, Career Paths**
  - [http://bct.eco.umass.edu/for-students](http://bct.eco.umass.edu/for-students)
  - (Under Students tab see several student chapters of professional organizations)

- **UMass Amherst CNS Career Center**
  - [www.cns.umass.edu/careers](http://www.cns.umass.edu/careers)

- **UMass Handshake Database of Internships & Jobs**
  - [https://umass.joinhandshake.com/](https://umass.joinhandshake.com/)
  - [https://www.umass.edu/careers/planning](https://www.umass.edu/careers/planning)
  - *(Click on "What Can I do with this Major" icon on the right-hand column.)*

- **FOCUS2 Career and Education Planning**
  - [www.umass.edu/careers/planning](http://www.umass.edu/careers/planning) for sign-in button

- **CNS Completed Research/Internships:**
  - [https://secure.cns.umass.edu/webforms/internships](https://secure.cns.umass.edu/webforms/internships)

- **UMass Amherst Career Services Events Calendar**
  - [www.umass.edu/careers](http://www.umass.edu/careers)

  - [www.bls.gov/ooh/construction](http://www.bls.gov/ooh/construction)

- **O-Net: “Building”**
  - [www.onetonline.org/find/quick?s=building](http://www.onetonline.org/find/quick?s=building)

- **Massachusetts Career Information System**
  - [http://masscis.intocareers.org](http://masscis.intocareers.org)
  - *(Click Mass Resident to login with “Amherst/01003” Then click “Occupations” or “Assessments”)*

- **Finding Independent Lab Research On Campus**
  - [www.umass.edu/biochem/undergraduate/lab](http://www.umass.edu/biochem/undergraduate/lab)

- **BCT Mailing List**
  - [https://bct.eco.umass.edu/about-us/bct-email-list/](https://bct.eco.umass.edu/about-us/bct-email-list/)

- **BCT Facebook (news)**
  - [www.facebook.com/UMassBCT](http://www.facebook.com/UMassBCT)

- **BCT Twitter (news)**
  - [https://twitter.com/umassbct?lang=en](https://twitter.com/umassbct?lang=en)

- **BCT LinkedIn Group (networking) (Must log in to LI)**
  - [https://www.linkedin.com/groups/6591054](https://www.linkedin.com/groups/6591054)

- **Industry Certifications and Licenses**
  - [http://bct.eco.umass.edu/for-students/cert](http://bct.eco.umass.edu/for-students/cert)

- **AGC of America on Building Contractors**
  - [www.agc.org/node/24371](http://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

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

Finding Internships

MassCEC Paid Internships Program
https://www.masscec.com/clean-energy-internship-program
MassCEC Resume Board
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)