• The laboratory also features many interactive exhibits that allow students of all ages to explore engineering principles.

• The ITLL has two open plazas equipped with lab stations where students can test, measure, and acquire data for project-based classes. Each station includes a computer loaded with a diverse set of engineering applications.

• Feel free to go downstairs. The ITLL Manufacturing Center, located in the basement, provides students with the resources for their projects, including a fabrication shop with pneumatic tools, wood working equipment, 3-D imagery printer, and laser cutters. (See the ITLL Self-Guided Tour brochure to further explore this unique facility.)

• Learn more at www.colorado.edu/itll.

If you went downstairs, return to the upper floor and walk NORTH. Notice additional group study rooms as you walk over the bridge to the Discovery Learning Center.

11 Discovery Learning Center (DLC)

• The DLC houses a dozen high-tech laboratories that bring together engineering students, faculty, and government or business partners to advance research and education across traditional boundaries.

• The facility showcases our Discovery Learning Program, which offers apprenticeships to students who want to get involved in research.

• Walk upstairs to the Colorado Space Grant Consortium, where students design and build real-world satellites, many of which have been launched by NASA or the U.S. Air Force. Students from a variety of majors help out with these projects, and many have paid positions.

• Look out the windows across the Royal Terrace to see the Jennie Smoly Caruthers Biotechnology Building (JSCBB), located on East Campus.

• Learn more at engineering.colorado.edu/DLC.

Proceed WEST down the hallway and turn LEFT (SOUTH) toward Mechanical Engineering.

12 Mechanical Engineering

• Mechanical engineers work in a variety of fields which include industrial machinery, manufacturing, and textile industries.

• In the display area, you’ll see examples of student work, which ranges from automotive to biomedical to aerospace projects.

• Learn more at www.colorado.edu/mechanical.

Continue SOUTH along the hallway to return to the Lobby. If you wish to visit a department or office that is not on this tour, see the Directory on the NORTH wall by the revolving doors.

13 Aerospace Engineering Sciences

• Aerospace engineers tackle challenges related to aircraft and spacecraft systems, including satellite navigation, bioastronautics, and remote sensing.

• Notice the astronaut display case. CU-Boulder has 18 affiliates who have flown in space as astronauts. The college also has two former astronauts on its faculty in the aerospace engineering department.

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15 Electrical, Computer, and Energy Engineering

• You will pass the Circuits Lab on your right, followed by the Colorado Nanofabrication Lab. The department office is located two floors down on level 1B.

• Electrical and computer engineers can specialize in wind energy, power electronics, solid-state materials, electromagnetics, and digital signal processing and communication.

• Learn more at ecee.colorado.edu.

Use the staircase on the RIGHT (by the exit sign) to go downstairs one level. Turn LEFT into the hallway, then LEFT again. Take a RIGHT and proceed toward the Aerospace wing, stopping at the artistic rendering of Jupiter.

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18 Academic Department Office Locations

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Welcome to the CU Engineering Center!

This self-guided tour starts on the west side of the lobby near the revolving doors. Feel free to explore hallways that aren’t marked on the tour. Follow the numbers in order and enjoy!

1. Engineering Center Lobby
   - The lobby is the hub of the Engineering Center and a great place to meet friends or do homework between classes. Bring your laptop as there are power outlets and wi-fi access.
   - Companies often host recruiting events here, and Career Services offers resume critiques and practice interviews.
   - The elevators lead to the eight-story Office Tower, where many department offices are located.

Walk SOUTH from the revolving doors.

2. Celestial Seasonings Counter
   - Celestial Seasonings, a Boulder-based business, is the largest specialty tea manufacturer in North America. The counter offers tea and coffee, snacks, fruit, burritos, and sandwiches from 7:30 a.m. to 7:30 p.m., Monday - Friday.
   - Learn more at www.celestiaselseasonings.com.

Continue SOUTH a short distance.

3. Active Learning Program Display
   - The Active Learning Program display board provides information about active learning options, including research (discovery learning), internships and co-ops (professional learning), and service learning.
   - Check out the adjacent displays in this area for information on other programs, such as Herbst Humanities, an academic program designed specially for engineering students.
   - Learn more at engineering.colorado.edu/activelearning.

Continue SOUTH, then turn RIGHT (WEST) into the Classroom Wing.

4. Classroom Wing
   - Classrooms are clustered in the ECCR wing of the building. Many classrooms accommodate up to 30 students, with some seating 50-100 students.

Turn LEFT (SOUTH) and continue to the Computer Science Classroom Wing. (You can see the Engineering Quad if you look out the window.)

5. Computer Science
   - Many Computer Science laboratories are grouped here, while the department office and some of the faculty offices are located on the 7th floor of the Office Tower.
   - Computer Science includes work in computer networks, artificial intelligence databases, and computer graphics.
   - NOTE: Each department has its own computer lab equipped with specific software for that particular major.
   - Learn more at cs.colorado.edu.

Proceed EAST to the entrance to Chemical and Biological Engineering (turn down the hall if you wish).

6. Chemical and Biological Engineering
   - Chemical and Biological Engineering includes work in the areas of medicine, new and traditional energy, and biochemistry.
   - The department has facilities both in the new biotechnology building on East Campus and in this wing, where it is part of a multi-disciplinary group focusing on energy and environmental sustainability.
   - Learn more at www.colorado.edu/chbe.

Continue EAST, then turn the corner, walk NORTH, and enter the BOLD Center on your RIGHT.

7. BOLD Center
   - The Broadening Opportunity through Leadership and Diversity (BOLD) Center is an academic excellence community committed to serving students from a wide range of backgrounds and preparing engineers with diverse perspectives to be innovative leaders in a global society.
   - The Student Success Center hosts free, drop-in tutoring for engineering students enrolled in key courses.
   - The center also has a large study room that offers students another great place to study and hang out.
   - Students can arrange to meet with a career or personal counselor, or a Peer Advocate, here as needed.
   - Learn more at bold.colorado.edu.

Exit BOLD Center through NORTH door to the Civil Engineering wing.

8. Civil, Environmental, and Architectural Engineering
   - Civil engineering is the design and construction of structures and transportation systems, and development of water resources.
   - Environmental engineering combines engineering with environmental conscious design.
   - Architectural engineering focuses on energy needs, building systems, and urban planning.
   - CEAE students can design 3-D imagery in the Computer-Aided Design (CAD) lab located in ECCE 141.
   - Learn more at ceae.colorado.edu.

Walk EAST down the hallway toward the ITL Laboratory.

9. Electronics Center
   - The Electronics Center is part of the ITL Laboratory, which is the next stop on this tour. The center offers a useful lab where students can get help with wire wrapping, soldering, creating schematics, testing circuits, etc.
   - Learn more at itl.colorado.edu/index.php/electronics_center.

As you continue EAST, enjoy a great view of the Flatirons.

10. Integrated Teaching & Learning Lab (ITLL)
    - The ITL Laboratory hosts the college’s first-year projects course along with sophomore- and junior-level hands-on learning courses, design expos, and senior projects.
    - The college pioneered this multidisciplinary learning environment, which integrates engineering theory with practice and promotes creative, team-oriented problem-solving skills.
    - Notice the group study rooms along the bridge, which can be reserved by students to meet with their teams; each has a computer and a whiteboard.