

# Career Profile

Name: Brad Randall

**Directions:** Using the Career Cruising website and other internet sites to discover your personal interests, career choices, and educational options. The purpose of this activity is to:

1. Provide aware of the many career opportunities related to design and technical drawing skills.
2. Provide aware of the many educational requirements and skills needed to be successful in a career related to design and technical drawing.

[www.careercruising.com](http://www.careercruising.com)

Username: Stevenson

Password: careers

**Step #1:** Create a profile

**Step #2:** Complete the “Career Matchmaker” assessment

**Step #3:** Explore one of the suggested careers or see how other careers match up with your answers.

What were 3 of the suggested careers you explored?

1. Mechanical Engineer
2. Architect
3. Welder

Explore a career that relates to this course (ie. Architect, aerospace, mechanical engineer, etc.) that interests you. What are 2 interesting facts that you learned about this career?

A Mechanical engineer uses CAD to design and test machines.  
Often works for manufacturing companies.

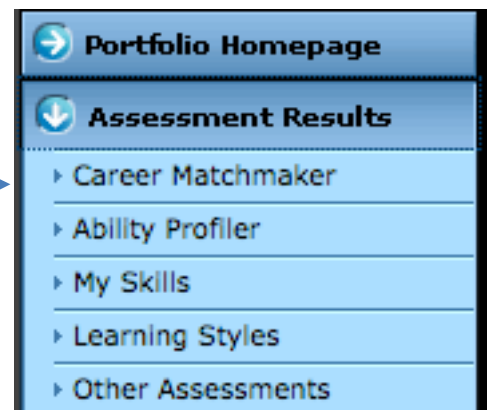
**Choose 1 career of your choice:**

What are the job responsibilities for this career?

As a Mechanical engineer you must work with your clients (often manufacturers) and design and make machines that will fit their specifications

What educational background or training or experience is needed for this career?

The minimum education requirements are a bachelor’s degree in mechanical engineering. Later on a Master’s degree or PhD is required for higher up levels. Also you should register as a professional Engineer.



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What levels of advancement are available to a person in this career?

The entry level wages are about \$57,000 and it can go up over time to over \$100,000. Also there are performance based raises and bonuses.

Starting \$57,000 Average \$78,000 Top \$119,000

**Step #4:** Using the “Schools that Interest Me” complete the survey. →

What were 3 universities/colleges that matched your career interest?

1. Cornell University
2. U of I
3. University of Colorado at Boulder



Using the Career Cruising website and other online sites, choose 1 university/college to explore:

What are the graduation requirements for the major/degree you chose?

During the five semesters after affiliation, completion of the Common Curriculum will typically mean earning credit for one math course, one science course, two approved electives, and five humanities or social science courses.

The requirements for the degree of Bachelor of Science in Mechanical Engineering consist of eleven required courses (beyond ENGRD 202, already mentioned), and five elective courses. The upper level program includes a large number of electives which (in combination with the two approved electives) may be used to build programs with particular emphasis that feature the interests of individual students. The five field-approved electives must include two courses which form a depth concentration, a field design elective, a mathematics elective, and a technical elective. More detailed information about these electives can be obtained from the undergraduate office in 112 Upson Hall. An additional graduation requirement is proof of elementary competence in interpreting technical drawings. This requirement can be satisfied by: a) ENGRG 102 - Drawing and Engineering Design; b) a technical drawing course in high school or in a community college; c) a technical drawing course at Cornell; or d) a departmental examination.

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Specifics can be obtained from the undergraduate office in 112 Upson Hall.

What are the costs involved with the major/degree you chose?

Tuition \$37,750 Fees \$204

Room & Board \$11,000

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