

SAN JOSÉ STATE UNIVERSITY

NUTRITION, FOOD SCIENCE & PACKAGING

PACKAGING DEPARTMENT



SUMMARY

Packaging is a unique discipline that blends science and technology, design, marketing, and business principles. The basic goal for packaging has always been to protect a product during distribution. However, now a package is a primary means of marketing a product and is often a significant factor in the profitability of a company. Also, packaging helps protect the consumer. Consider tamper evident packaging, for example. Packaging is a vital part of our present-day economy. It's almost a \$1 trillion a year industry worldwide that is growing as the demand for new packaging technologies continues to evolve rapidly. Today's packaging professionals are part of a team that develops the product and is largely responsible for ensuring the product is delivered to the consumer in the desired condition. Therefore, packaging plays a critical role in providing customer satisfaction – the key ingredient to a successful enterprise.

WHY CHOOSE PACKAGING?

At the end of the day, everything will need a package to get to its destination. This means that packaging will never be obsolete and makes the career field of packaging in very high demand and extremely lucrative. With only two schools of packaging in California, packaging engineers are always in need. Furthermore, the field of packaging is extremely broad with the ability to almost go into any field of your choice.

The Packaging Program at San Jose State University has always prided itself with a strong industry collaboration. Through this relationship, SJSU Packaging has a very strong internship program with connections to very reputable Bay Area companies such as Google, Apple, Facebook, Tesla, Genentech, Gilead Sciences, and Boston Scientific.

PACKAGING CAREERS

- ◇ Package Designer
- ◇ Test Engineer
- ◇ Research and Development
- ◇ Sustainability Engineer
- ◇ Sales
- ◇ Supply Chain
- ◇ Quality Assurance
- ◇ Graphics Designer
- ◇ Reliability Engineer
- ◇ Medical Packaging Engineer
- ◇ Packaging Machinery Engineer
- ◇ Hazardous Materials Packaging Engineer
- ◇ Materials Engineer

INTERNSHIPS AVAILABLE

- ◇ Google – Mountain View, CA
- ◇ Apple – Cupertino, CA
- ◇ Facebook – Menlo Park, CA
- ◇ Gilead Sciences – Foster City, CA
- ◇ Genentech – San Francisco, CA
- ◇ Stryker – Various Locations Worldwide
- ◇ Boston Scientific – Various Locations Worldwide
- ◇ Este Lauder – New York, NY
- ◇ Tesla – Fremont, CA
- ◇ Westpak – San Jose, CA
- ◇ Infinity Labs – San Jose, CA
- ◇ Foster Farms – Livingston, CA
- ◇ Corsair – Fremont, CA
- ◇ Yuto – Santa Clara, CA
- ◇ Revolution – Santa Cruz, CA
- ◇ Menasha – Rialto, CA
- ◇ Perfection Pet Foods – Visalia, CA
- ◇ Del Monte Foods – Walnut Creek, CA
- ◇ Amgen – Thousand Oaks, CA
- ◇ 3M – St. Paul, MN
- ◇ Smashbox Cosmetics – Los Angeles, CA
- ◇ Benefit Cosmetics – San Francisco, CA

PACKAGING COURSES

- ◇ PKG 107 – Principles of Packaging
- ◇ PKG 120 – Artios CAD for Packaging
- ◇ PKG 121 – Solidworks for Packaging
- ◇ PKG 141A – Materials I (Paper, Metal, & Wood)
- ◇ PKG 141B – Materials II (Plastics, Composites, & Glass)
- ◇ PKG 146 – Medical Device & Pharmaceuticals Packaging
- ◇ PKG 156 – Packaging Machinery Systems
- ◇ PKG 158 – Protective Package Design and Testing
- ◇ PKG 159 – Packaging Material Handling & Distribution
- ◇ PKG 160 – Hazardous Materials Packaging
- ◇ PKG 168 – Advanced Testing
- ◇ PKG 169 – Food Packaging and Preservation
- ◇ PKG 170 – Packaging Development and Management

INDUSTRY CONNECTIONS

The Packaging Program at San Jose State University is led by Edmund Tang, who has been working in the packaging industry for almost 20 years. Through his vast professional network, he enhances the program by his strong connections to many industries. The benefits from this relationship range from guest lectures, field trips, exclusive internship opportunities, and the ability to use a professional lab. This relationship with the industry provides the SJSU students with training which is above and beyond the typical educational experience and will provide an excellent train and learning experience not found in any other program.

OTHER INFORMATION

- ◇ Every BS student completes a field experience course under the supervision of a professional in the discipline who serves as a mentor.
- ◇ Each year students in Packaging attend the industry conference Pack Expo, which rotates locations between Chicago and Las Vegas.



PACKAGING LABORATORY

The packaging laboratory at San Jose State University is one of the country's best equipped facilities for the design, fabrication and testing of packages. The lab acts as a student facility but also can be utilized for contract testing by companies looking for a third-party unbiased test facility. We engage in development of test methodologies for clients who are not able to have dedicated packaging departments. The operation of a Package design and testing facility at a university allows for the input of new ideas from students in the design process and gives the students real-world issues to problem solve.

Our Test and Fabrication Facilities Include:

Mechanical Shock Testing	Gurley Porosity Test
Vibration Testing	Pouch Fabrication
Drop Testing	Gross Leak Testing
Accelerometer Outputs	Seal Strength Testing
Environmental Conditioning	Mullen Burst Testing
Accelerated Aging	Edge Crush Testing
Compression Testing	Head Space Analysis (O ₂)

ACADEMIC UNIT

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