THE GENIUS of CALTECH
2015-2016 FINDINGS
Getting to work with Prof. Harry Gray is a really neat experience. He’s studied everything, from bonding in metal complexes to electron transfer in proteins, and he’s pioneered the field of inorganic chemistry in a lot of ways. He helped set up my first SURF. After that, I asked if he had a place in his lab for me to work. We get a lot of opportunities to present our research and ask for feedback. It’s really cool to talk with a world class scientist about research.

All elements of the Caltech Community have a high probability of establishing bonds with all other elements—peers, teachers, researchers, and labs.
ACADEMIC ABSOLUTES

Our world-class education begins with one of the country’s most demanding core curricula. An interdisciplinary foundation and exposure to all the sciences affords Techers the opportunity to declare their option after three terms of classes, the first two of which are graded pass/fail.

ACADEMIC VARIABLES

26 UNDERGRADUATE OPTIONS

- Applied & Computational Mathematics
- Applied Physics
- Astrophysics
- Biophysics
- Biochemistry & Management
- Chemical Engineering
- Chemistry—choose from 4 concentrations:
  - Biochemistry
  - Chemical Physics
  - Inorganic Chemistry
  - Organic Chemistry
- Computer Science
- Economics
- Electrical Engineering—choose from 6 concentrations:
  - Communications & Signal Processing
  - Control
  - Electronic Circuits
  - Microwave & Radio Engineering
  - Optoelectronics
  - Solid State Electronics
- Engineering & Applied Science—choose from 2 concentrations:
  - Computation & Neural Systems
  - Materials Science
- English
- Geobiology
- Geology
- Geophysics
- History
- History & Philosophy of Science
- Independent Studies Program
- Mathematics
- Mechanical Engineering
- Philosophy
- Physics
- Planetary Sciences
- Political Science

MINORS

- Aerospace Engineering
- Control & Dynamical Systems
- English
- Geobiology
- History
- History & Philosophy of Science
- Philosophy
- Structural Mechanics

More pranks? caltech.edu/pranks
Hey Future Techers!

Admissions.caltech.edu

$6,000

10

95%

80%

59%

Learn more!

eat.caltech.edu

Center for Biological Engineering: developing engineering solutions found in nature for potential applications in water energy, food control, population, and biological devices.

Kavli Nanoscience Institute: leading the definition of advanced nanotechnology, work at the innovation threshold of physics, chemistry, biology, and materials.

Research Institute: home to research considered too innovative or “high-risk” for government or industry to explore, a fusion of new methods, minds, and technologies to advance the multidisciplinary chemical and biological fields.

High proximity and reciprocal respect enable the Techer element to form strong academic and professional bonds with top tier faculty, researchers and other like-minded people.

10 research weeks in SURF

95% proposal acceptance rate for Techers

80% of all Techers participate in SURF

59% of first-year students participated in 2014

Through the program, students have oversight of their projects from writing proposals to presenting research. During the course of their fellowship, Techers have access to many of the finest research facilities in the world, plus an opportunity to receive personal mentoring from global leaders in their respective fields.

NASA Center: in addition to JPL, Caltech hosts 5 NASA Science Research Centers—FUSE, HESSD, Galaxy Evolution Explorer (GALEX), Stardust, Spectroscopic Observatory, Island (SOFI), and Spitzer Space Telescope.

Linda Center for Global Environmental Change: a LEED platinum laboratory where scientists study climate change, atmospheric, oceanographic, and environmental microbiology.

Seism Lab: birthplace of the Richter and Moment Magnitude scales, pioneer in measuring the gravitational waves of colliding neutron stars, and on our campus, which seeks to measure the gravitational waves produced by colliding neutron stars, black holes, and supernovae.

BY NUMEROUS INSTRUMENTATION ON 34 ACTIVE MISSIONS, JPL CURRENTLY HAS SPACECRAFT AND NEARBY JET PROPULSION LABORATORY. MANAGE AND OPERATE A NASA SITE: THE CALTECH IS THE ONLY UNIVERSITY TO DO SO. "CALTECH THE HOTTER INSTITUTE OF TECHNOLOGY. " WHEN FILLED VISIT DAY. THE BLACK MUGS READ "MIT THE BLACK MUGS TO MIT’S 800 HEAT-SENSITIVE COFFEE MUGS TO MIT'S IN 2014, TECHERS DELIVERED MORE PRANKS?"....

18 APRIL 2014; TECHERS DELIVERED 800 HEAT-SENSITIVE CENTER MUGS TO MIT'S ADMINISTRATIVE BUILDING VISIT DAY. THE BLACK MUGS READ "MIT THE INSTITUTE OF TECHNOLOGY" WHICH FAILED WITH A WARM RECEPTION, THEY TRANSFORM TO ORANGE AND CORRECT THE SCRIPT TO "MIT CONTINUES THE BATTY INSTITUTES OF TECHNOLOGY".
The social life of a Techer accelerates when exposed to powerful on-campus forces such as housing, athletics, fine arts, and special-interest organizations.

**BODIES IN MOTION STAY IN MOTION!**
- 80% of students participate in intercollegiate, club, intramural, and informal recreational activities.
- Caltech competes in the Southern California Intercollegiate Athletic Conference (SCIAC) and has racked up a number of landmark victories and honors!

**19 DIVISION III VARSITY TEAMS**
- Baseball
- Basketball
- Cross Country
- Fencing
- Soccer
- Swimming & Diving
- Tennis
- Track & Field
- Volleyball
- Water Polo
- Wrestling

Some favorite Physical Education courses include:
- AEROBIC (WTR/SPR)
- Track & Field (SPR)
- VOLLEYBALL (SPR)
- WATER POLO (WTR/SPR)

**GETTING AROUND**
- On your feet: Nearby Colorado Boulevard and Old Town Pasadena feature great restaurants, shopping and special events.
- Public Transportation: Pasadena’s Gold Line Light Rail which connects to Union Station in downtown Los Angeles. Nearby Colorado Boulevard and Old Town Pasadena feature great restaurants, shopping and special events.

**THE IDEAL LOCATION IN SOUTHERN CALIFORNIA**
- The Caltech campus is located in Pasadena, California, a vibrant, resource-rich city just 10 miles northeast of Los Angeles.
- Average Temperatures: 77 degrees Fahrenheit
- Iconic Cultural Events: The Tournament of Roses Parade and the Rose Bowl game.

**THE CALTECH THEORY OF SOCIAL DYNAMICS**
- Bodies in motion stay in motion!
- Life revolves around 8 on-campus houses.
- 85% of students live in Caltech housing.
- A life immersed among brilliant peers.
- Discover the personalities and traditions of each house and submit your preferences list during Rotation (the week before classes).
- Study, socialize, and dine together—every house has a student Grill Master!
- Students remain part of the same close-knit community all 4 years.

**THE MOSH**
- The Master of the Student Houses, is a professor who acts as liaison between Caltech undergraduates and faculty.

**THE CALTECH THEORY OF PRANKOLOGY**
- More pranks? caltech.edu/pranks

**ON MARCH 14, AT 1:59 A.M., TECHERS FEAST WITH 26 PIES IN EACH OF 5 VARIETIES. PERHAPS IT’S THE SUGAR RUSH, BUT BY SUNRISE, THE STUDENTS’ BRIGHTEN CAMPUS WITH A PAPER CHAIN—A COLOR FOR EACH NUMBER, AND A LINK FOR PI’S FIRST 15,000 DIGITS.**

**GIVE BACK, GET BACK THROUGH THE CALTECH Y**
- Volunteer and service-learning opportunities!
- The Social Activism Speaker Series sponsors events ranging from an evening with social activist Boots Riley (frontman of The Coup) to a raffle between Bill O’Riley and Jon Stewart.
- A Science Policy Trip to Washington D.C. convenes over winter break.
- Alternative Spring Break Trips are taken to places like Costa Rica and Yosemite.
- Join the Y for Cultural Events, such as WorldFest, Noon Concerts, and the Huntington Gardens for Tea.
- Outdoor activities: National Park visits, kayaking, horseback riding, the annual Y-hike, and backpacking through the Sierras!

**EVEN THE FINE ARTS HAVE NUMBERS**
- 2/3 of Techers play at least one musical instrument.
- 70-piece Caltech/Occidental College Orchestra includes professors and students, as well as JPL scientists and engineers.
- Jazz Bands often invite local professionals to perform.
- The Coup to a rumble between Bill O’Reilly with social activist Boots Riley (frontman of Dead Kennedys) to a musical instrument.
- 4 Visual Arts—Ceramics, Painting & Drawing, Silkscreening, and Film Studies—are offered every term.

**LEILA VISWANADHAM, 2015, APPLIED & COMPUTATIONAL MATHEMATICS**

“The house system elevates collegiate housing way beyond the standard residential hall. The social and academic support from Caltech’s house system transforms your peers at Caltech into a second family.”

Learn more! admissions.caltech.edu/houses

Learn more! caltechy.org

Learn more! gocaltech.com

Learn more! gocaltech.com

Learn more! caltech.edu/blogs

Learn more! caltech.edu/blogs

Learn more! gocaltech.com

Learn more! gocaltech.com

Learn more! caltech.edu/blogs

Learn more! gocaltech.com

Learn more! caltech.edu/blogs

Learn more! caltech.edu/blogs
EVERY HALLOWEEN NIGHT, STUDENTS DUNK PUMPKINS IN LIQUID NITROGEN AND DROP THEM FROM CALTECH’S TALLEST BUILDING (MILLIKAN LIBRARY) DURING THE ANNUAL “PUMPKIN DROP”.

Admissions analysis of academic and personal data for any given student remains more of an art than a science.

THE CALTECH THEORY OF STATISTICS

STUDENT ENROLLMENT 2014-2015

<table>
<thead>
<tr>
<th>Class Size</th>
<th>Raw Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>63%</td>
<td>Applicants 6,507</td>
</tr>
<tr>
<td>33%</td>
<td>Admit Rate 9%</td>
</tr>
<tr>
<td>3%</td>
<td>Freshman Class 241</td>
</tr>
<tr>
<td>3:1</td>
<td>Women 47%</td>
</tr>
<tr>
<td></td>
<td>Men 53%</td>
</tr>
<tr>
<td></td>
<td>Underrepresented Ancestry 15%</td>
</tr>
</tbody>
</table>

First-Year Applicants

Secondary School Academic Preparation
- 4 years of Math (including Calculus)
- 1 year of Physics
- 1 year of Chemistry
- 3 years of English
- 4 years recommended
- 1 year of U.S. History/Government (waived for international students)

Teacher Evaluations
- 1 Math or Science instructor and 1 Humanities or Social Science instructor

Apply online: commonapp.org

APPLICATION DEADLINES

<table>
<thead>
<tr>
<th>Application Type</th>
<th>Early Action</th>
<th>Regular Decision</th>
</tr>
</thead>
<tbody>
<tr>
<td>First-Year Application &amp; Support Materials</td>
<td>November 1</td>
<td>January 3</td>
</tr>
<tr>
<td>First-Year Reply Date</td>
<td>May 1</td>
<td>May 1</td>
</tr>
<tr>
<td>Transfer Application &amp; Support Materials</td>
<td>–</td>
<td>February 15</td>
</tr>
<tr>
<td>Transfer Reply Date</td>
<td>–</td>
<td>June 1</td>
</tr>
<tr>
<td>3/2 Application &amp; Support Materials</td>
<td>–</td>
<td>April 1</td>
</tr>
<tr>
<td>3/2 Reply Date</td>
<td>–</td>
<td>June 1</td>
</tr>
</tbody>
</table>

The Financial Equation

- Average indebtedness in 2014: $12,104; less than half the national average of $33,000 (SOURCE: WSJ)
- Over 1/2 of our students receive need-based aid
- Caltech meets 100% of demonstrated need for U.S. Citizens and Permanent Residents

ACCOUNT INFORMATION

Undergraduate Admissions Office
- ugadmissions@caltech.edu
- 626-395-6341
- admissions.caltech.edu

Visit Caltech! admissions.caltech.edu/visit

Tuition and Fees

<table>
<thead>
<tr>
<th>Item</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>One-time Student Orientation Fee</td>
<td>$500</td>
</tr>
<tr>
<td>Tuition</td>
<td>$43,710</td>
</tr>
<tr>
<td>Student Fees</td>
<td>$1,160</td>
</tr>
<tr>
<td>Room</td>
<td>$7,536</td>
</tr>
<tr>
<td>Board (5 days/week)</td>
<td>$5,835</td>
</tr>
<tr>
<td>Additional Meal Allowance (est.)</td>
<td>$1,413</td>
</tr>
<tr>
<td>Books and Supplies (est.)</td>
<td>$1,233</td>
</tr>
<tr>
<td>Personal Expenses (est.)</td>
<td>$1,974</td>
</tr>
</tbody>
</table>
| Total Estimated Cost            | $63,471

*For a more accurate estimate of your cost, please visit the Net Price Calculator at finaid.caltech.edu

In 1972, a student returning from a week’s vacation found that his entire dorm room had mysteriously vanished. Pranksters had carefully plastered and painted over the door, added baseboard, replaced a lighting fixture and... presto! One less room.

More pranks? caltech.edu/pranks

California Institute of Prankology
Data collected over a period of 123 years has provided overwhelming evidence to support the hypothesis that Caltech graduates are highly motivated, in high demand, and highly valued.

**LIFE AFTER CALTECH**

Caltech’s undergraduate programs provide an educational foundation that enables graduates to pursue advanced education and/or careers in a vast array of fields. For example:

<table>
<thead>
<tr>
<th>Field</th>
<th>Employers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computers and Technology</td>
<td>Apple, Google, IBM</td>
</tr>
<tr>
<td>Entertainment and Media</td>
<td>Amazon, Facebook, Pixar</td>
</tr>
<tr>
<td>Energy and Utilities</td>
<td>Exxon Mobil, GE, SoCal Edison</td>
</tr>
<tr>
<td>Education</td>
<td>Stanford, UC Berkeley, Caltech, MIT, Princeton</td>
</tr>
<tr>
<td>Finance and Business</td>
<td>AmEx, Morgan Stanley, Goldman Sachs</td>
</tr>
<tr>
<td>Health Services &amp; Biotechnology</td>
<td>Amgen, Genentech, Mayo Clinic</td>
</tr>
<tr>
<td>Transportation and Aerospace</td>
<td>JPL, Lockheed Martin, GM</td>
</tr>
</tbody>
</table>

55%: percentage of undergraduates who go directly to graduate school

$82,000: average starting salary for Caltech graduates (82% higher than the national average of $45,300!)

150 to 200: employers actively recruiting Caltech students on campus

8: average number of Caltech startups launched each year

110: average number of patents filed per year over the last 5 years

Undergraduate Admissions Office
383 S. Hill Ave.
Mail Code 10-90
Pasadena, CA 91125

✉ ugradmissions@caltech.edu
📞 626 395 6341
🌐 admissions.caltech.edu
The social life of a Techer accelerates when exposed to powerful on-campus forces such as housing, athletics, fine arts, and special-interest organizations.

**LIFE REVOLVES AROUND 8 ON-CAMPUS HOUSES**

85% of students live in Caltech housing.

A *life* immersed among brilliant peers:

- Discover the personalities and traditions of each house and submit your preference list during Rotation (the week before classes).
- Study, socialize, and dine together—every house has a student Grill Master!
- Students remain part of the same close-knit community all 4 years.

The MOSH, the Master of the Student Houses, is a professor who hosts faculty-student events and acts as liaison between Caltech undergraduates and faculty.

Learn more! admissions.caltech.edu/houses

**BODIES IN MOTION STAY IN MOTION!**

- 80% of students participate in intercollegiate, club, intramural, and informal recreational activities.

*Caltech competes in the Southern California Intercollegiate Athletic Conference (SCIAC) and has racked up a number of landmark victories and honors!*

Learn more! gocaltech.com

**19 DIVISION III VARSITY TEAMS**

- Baseball
- Basketball
- Cross Country
- Fencing
- Soccer
- Swimming & Diving
- Tennis
- Track & Field (W/S)
- Volleyball
- Water Polo

Some favorite Physical Education courses include:

- Hiking
- Flying Saucers
- Table Tennis
- Aerobic Dance
- Half-Marathon Training
- Rock Climbing