Above: Students participating in the Summer Environmental Exchange program of the Tahoe-Baikal Institute, which focuses on watershed protection, sustainable development, and cultural exchange

PROGRAM SUMMARY:
- Master's degree in as little as one year (non-thesis)
- Thesis-based master's degree in less than two years

RESEARCH AREAS:
- CAD/CAM
- CNC Machine Tool Technology
- Combustion
- Composite Materials
- Computational Intelligence
- Computer Networking
- Computer Simulation
- Data-Intensive Computing
- Data Visualization
- Engineering Management
- Environmental Engineering
- Finite Element Methods
- Manufacturing Processes & System Automation
- Mechatronics
- Parallel Programming
- Polymer Materials
- Power Electronics
- Renewable Energy
- Sensor Networks
- Solar Energy Engineering
- Structural Engineering
- Virtual Reality
- VLSI Design
- Water Quality & Resources
- Wind Energy

With concentrations in:
- **CIVIL ENGINEERING** (ENVIRONMENTAL AND STRUCTURAL)
- **COMPUTER/ELECTRICAL ENGINEERING & COMPUTER SCIENCE**
- **MECHANICAL ENGINEERING**

Integrating Practical Experiential Learning and Technical Education

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Financial Support

Students may receive up to nine units of tuition per semester at no cost, plus a monthly stipend through either of the following graduate assistantships:

- **Teaching Assistantships.** Students assist with instruction in undergraduate courses that contain laboratory components.
- **Research Assistantships.** Students support research endeavors with faculty recording, developing, and executing unique and advanced research experiments and documentation.

Students interested in applying for an assistantship should email Dr. Litton at: dlitton@pacific.edu.

**Directed Experiential Learning (DEXL):** Paid graduate internships that can lead to permanent job offers.

**Master of Science Industry Fellowship:** Graduate internship with professional-level pay. Occur at the end of the program, allowing students to remain with the company upon graduation.

**Other:** Students may apply for federal student loans through the Pacific Office of Financial Aid: 209.946.2421 or financialaid@pacific.edu

**Admission Requirements**

- Bachelor's degree in engineering, computer science, or closely related discipline.
- General subject GRE scores.
- Minimum GPA of 3.00 (however, students with exceptional qualities in other areas will be considered). The last 60 units of the undergraduate degree can be used for this calculation.
- 3 letters of recommendation.
- One-page personal statement that includes: reason for pursuing graduate studies, objectives, and plans for graduate study.
- TOEFL (For students whose first language is not English)

**Degree Requirements**

Complete a minimum of 30 units in one of two plans:

**Thesis Plan**

(A) Project

(B) Directed Experiential Learning

(C) Coursework

**Student Perspective**

“Integration and application of diverse and technical knowledge is key in the MSES program. Because of this I have the tools I need to become a successful member of a society poised to change the world.”

- Jocelyn Gray, class of 2011

**Apply at:** [http://go.pacific.edu/gradapply](http://go.pacific.edu/gradapply)