FEHR & PEERS
TRANSPORTATION CONSULTANTS

BICYCLE & PEDESTRIAN CAMPUS PLANNING

- ***Bicycle & Pedestrian Planning***
- Intelligent Transportation Systems
- Land Use & Transportation Planning
- Parking
- Smart Growth
- Traffic Calming
- Traffic Engineering Design
- Traffic Operations & Simulation
- Transit Planning & Simulation
- Transportation Systems Planning
- Travel Demand Forecasting

College, University, and Large Employer Campuses can function as small cities of their own, with unique needs but also unique opportunities. Multi-modal transportation needs, including linkages throughout the campus and within the greater community, are frequently significant challenges for these campuses. Fehr & Peers offers pedestrian and bicycle planning services on campuses, including nonmotorized master plans, safety studies, and bicycle parking analysis, tailored to meet the campus context.

REDUCE YOUR CAMPUS' CARBON FOOTPRINT

Today's campuses are much more than academic buildings. Each campus has its own unique identity. Many students consider their college campus home, and conduct most of their daily activities on and around their school's grounds. Campuses have also become integrated within their local environments, serving as an attraction and a resource to their surrounding communities.

By planning for bicycles and pedestrians, campuses can create linkages for maneuvering throughout the campus, and create a unified campus that is accessible to all of its users. By emphasizing these sustainable transportation modes, colleges and universities can also enhance their relationships with the surrounding community that otherwise feels the effects of campus-related parking and traffic. Bicycle and pedestrian planning includes improving bicycle and pedestrian facilities within a campus, but also focuses on providing a safe environment for cyclists and pedestrians on and around a school and integrating the school within its local environs. In this way, campus bicycle and pedestrian planning directly addresses the carbon footprint of the campus.

WHY FEHR & PEERS?

Fehr & Peers has been a leader in campus bicycle and pedestrian planning for over fifteen years. We have national experts in the field, who are consistently advancing the state of the practice. Our staff uses state-of-the-art technology to clarify issues, devise solutions, and create implementation programs.

In additional to our expertise in bicycle and pedestrian planning, our staff includes experts in traffic operations and transit planning. This multi-modal focus enables us to recommend state-of-the-practice solutions while ensuring that these solutions will work in practice.

We recognize that each campus is different, with unique needs, geography, resources, and history. We address each project as an individual challenge, and create custom solutions that are most suitable for your campus.

RECENT PROJECT EXPERIENCE

Over the past 15 years, we have completed campus bicycle and planning projects for a variety of clients, including:

- California State Polytechnic University, Pomona
- California State University, Long Beach
- California State University, Sacramento
- University of California, Berkeley
- University of California, Davis
- University of California, Riverside
- University of California, Santa Barbara
- University of Redlands, Redlands, California
- University of Southern California
- University of Utah

Our extensive experience includes:

- Engaging campus and larger-community stakeholders to develop a vision, goals, and objectives for bicycle and pedestrian plans
- Creating GIS(map)-based inventories of pedestrian and bicycle facilities
- Collecting and analyzing volume, collision, and behavior data
- Identifying and assessing "hot spot" locations
- Evaluating and improving linkages to transit
- Recommending priority projects with cost estimates and a phasing plan (including the design of bicycle roundabouts)
- Enhancing safety through crosswalk, roadway, and intersection improvements and revised design standards
- Designing support facilities such as bicycle parking, lockers, and showers
- Assisting with grant applications
- Analyzing the interaction between pedestrians, bicyclists, and motorized traffic

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California State University, Long Beach

Fehr & Peers conducted a bicycle and pedestrian circulation study for the California State University, Long Beach (CSULB) campus. As part of the study, we collected an inventory of the entire campus' bicycle and pedestrian facilities, and evaluated linkages to the City of Long Beach facilities and transit routes. A key component of the study was the detailed assessment of multiple "hot spots" on-campus where intersections between pedestrians, bicyclists, and automobiles present unique issues. Recommendations were made for improving bicycle and pedestrian facilities on-campus, including the detailed "hot spot" locations, with an accompanying implementation strategy.

California State University, Sacramento

Fehr & Peers created a bikeway master plan for CSU, Sacramento. We extensively studied existing facilities, and linked these facilities to create a more comprehensive network for cyclists on campus. We also provided solutions for addressing the congested areas of campus. We identified high-priority areas of campus for bicycle activities, and recommended phasing improvements on campus.

California State Polytechnic University, Pomona

Fehr & Peers conducted a pedestrian safety study of the California Sate Polytechnic University (Cal Poly), Pomona Campus. The project included evaluation of existing pedestrian facilities and vehicle data on-campus, with particular attention to pedestrian-vehicle conflict locations. As part of this work, recommendations were made for specific crosswalk, roadway, and intersection improvements both on-campus and on City of Pomona roadways. Guidelines were developed for Cal Poly's future pedestrian treatments, including crosswalk design standards. The evaluation assisted the University in future development of amenities that are safe and inviting for pedestrian activity and helps to make the University more pedestrian-friendly.

University of California, Berkeley

Fehr & Peers has worked with UC Berkeley on both bicycle plans and safety studies. We developed UC Berkeley's bicycle plan, which included a complete network for bicycles traveling through campus. We also designed bicycle and alternative mode facilities, including showers and parking. For this project, we met with key stakeholders and participated in education programs for bicycling on campus. We also conduced a pedestrian safety study along Centennial Drive on the UC Berkeley campus. We specifically addressed pedestrian safety at the roadway's intersection with the Botanical Gardens, and recommended solutions to improve and enhance pedestrian safety.

University of California, Davis

The city of Davis, California has received national recognition for its bicycle planning, and the enthusiasm for creating a bicycle-friendly environment has been crucial for the development of the UC, Davis campus. Fehr & Peers has worked on several bicycle and pedestrian projects for the school, including the development of a bikeway master plan and studies along corridors traversing through the campus. The bikeway master plan provided a bikeway and transit network plan for the campus, and identified pedestrian access improvements and bikeway design guidelines. The plan also identified the facilities and services needed to connect the campus to the new West Village neighborhood. For this project, Fehr & Peers assisted UC Davis in preparing a grant with Caltrans to undertake the analysis. In addition to the bicycle plan, we have been involved in studies along Hutchison Drive, an east-west roadway that travels through the UC Davis campus, connecting it to the City of Davis. We have studied travel lane widths for both motorized vehicles and bicycles along this road, and assessed the proposed 6' bicycle lane widths. We also undertook safety studies along this corridor, including providing solutions for a mid-block bicycle and pedestrian crossing.

University of California, Riverside

Fehr & Peers undertook a pedestrian safety study for the University of California, Riverside campus. We studied four locations on campus where pedestrians were observed to walk outside of the designated crosswalk locations. We reviewed each location to determine the condition of the existing crosswalk, collected pedestrian counts, and identified proposed improvements. We then reviewed the proposed improvements with University staff and modified our recommendations as appropriate.

University of Redlands

Located in the southern California city of Redlands, University of Redlands is a predominantly residential campus for undergraduate students. There are several linkages throughout the campus for cyclists, so the University wanted to ensure that there was ample parking for bicycles near its buildings. Fehr & Peers met with focus groups of staff and students at University of Redlands to identify any issues regarding bicycling on campus. We also collected bicycle parking inventory and utilization during the peak periods of bicycle activity. Using this information, we recommended high priority locations for additional bicycle parking, and created a phased implementation plan for the school.

University of Utah

Fehr & Peers has worked extensively with the University of Utah, in Salt Lake City. We recently completed the transportation component of the University of Utah's campus master plan, which included a non-motorized component. We used our knowledge of the campus and its transportation-related issues to guide our analysis and solutions. We collected bicycle and pedestrian data, reviewed plans and programs, and provided solutions for pedestrian and bicycle facilities to be included in the campus' plans for future development.