

### I. Cover Sheet

#### Project Title

Davis Bike Church Physical Space Renovation
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#### Primary Applicant

*This person is the primary contact – who is ultimately held responsible for reporting and use of the funds. Applications which fail to put an actual person's name in this section may be disqualified.*

Name	Jason Moore	e-mail	jkmoor@ucdavis.edu
UC Davis Classification: <input type="checkbox"/> Faculty <input type="checkbox"/> Staff <input checked="" type="checkbox"/> Graduate Student <input type="checkbox"/> Undergraduate Student			
Department, program, graduate group or major of primary applicant: Mechanical and Aeronautical Engineering			
Mailing Address	611 Lessley Place Davis, CA 95616		
Telephone	530-753-0794		

#### Quick List

*Check all that apply to this proposal.*

<input type="checkbox"/> Research	<input type="checkbox"/> Exploratory	<input type="checkbox"/> Event
<input checked="" type="checkbox"/> Education, training	<input checked="" type="checkbox"/> Building or structure	<input type="checkbox"/> Publication
<input checked="" type="checkbox"/> Outreach	<input checked="" type="checkbox"/> Land use, grounds	<input type="checkbox"/> Display, exhibit
<input type="checkbox"/> Planning	<input checked="" type="checkbox"/> Technology, equipment	<input type="checkbox"/> Performance

#### Project Abstract

*Maximum 200 words.*

<p>The Davis Bike Church, located in the Sustainable Research Area, is in the process of a major renovation of our physical space. This renovation consists of weatherproofing our structures, making improvements to the natural landscape and constructing a decorative bicycle fence to define the space. This is all part of the initiative we are calling "The Great Pedal Forward" in which we bring the Bike Church to a new level of organization and functionality with the final goal of serving many more community members.</p>
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### II. Additional Team Members, Project Advisors and Collaborators

Attach additional sheets as necessary. (Collaborators are those who authorize space, structural changes, donate materials, agree to maintenance, or provide other trade services.)

Name	Sarah McCullough			e-mail	smcc@ucdavis.edu
UC Davis Classification: <input type="checkbox"/> Faculty <input type="checkbox"/> Staff <input checked="" type="checkbox"/> Graduate Student <input type="checkbox"/> Undergraduate Student					
Project Role: <input checked="" type="checkbox"/> Team Member <input type="checkbox"/> Advisor <input type="checkbox"/> Collaborator (please explain)					
Collaboration:					
Name	Matthew Seitzler			e-mail	mtseitzler@ucdavis.edu
UC Davis Classification: <input type="checkbox"/> Faculty <input type="checkbox"/> Staff <input checked="" type="checkbox"/> Graduate Student <input type="checkbox"/> Undergraduate Student					
Project Role: <input checked="" type="checkbox"/> Team Member <input type="checkbox"/> Advisor <input type="checkbox"/> Collaborator (please explain)					
Collaboration: Recipient of the UC Davis Sustainability Grant "Solar Electrification of the Davis Bike Church"					
Name	Ty Nowotny			e-mail	tknowotny@ucdavis.edu
UC Davis Classification: <input type="checkbox"/> Faculty <input type="checkbox"/> Staff <input checked="" type="checkbox"/> Graduate Student <input type="checkbox"/> Undergraduate Student					
Project Role: <input checked="" type="checkbox"/> Team Member <input type="checkbox"/> Advisor <input type="checkbox"/> Collaborator (please explain)					
Collaboration:					
Name	Christopher Congleton			e-mail	cdcong@ucdavis.edu
UC Davis Classification: <input type="checkbox"/> Faculty <input type="checkbox"/> Staff <input checked="" type="checkbox"/> Graduate Student <input type="checkbox"/> Undergraduate Student					
Project Role: <input checked="" type="checkbox"/> Team Member <input type="checkbox"/> Advisor <input type="checkbox"/> Collaborator (please explain)					
Collaboration:					
Name				e-mail	
UC Davis Classification: <input type="checkbox"/> Faculty <input type="checkbox"/> Staff <input type="checkbox"/> Graduate Student <input type="checkbox"/> Undergraduate Student					
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Collaboration:					

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Project Role: <input type="checkbox"/> Team Member <input type="checkbox"/> Advisor <input type="checkbox"/> Collaborator (please explain)			
Collaboration:			

### **III. Project Description**

#### **Project Title**

Davis Bike Church Physical Space Renovation

#### **Description**

*Maximum 1250 words.*

The Davis Bike Church requests funding to make substantial and long-lasting improvements to the Church's physical space. These improvements, such as weatherproofing and landscaping, are needed for the Church to maintain and expand its ability to serve as a bicycling resource for the greater campus community. We are creating a more efficient and sustainable physical space in order to increase the number of people served and the resources and services offered. Since its beginnings nearly five years ago, the Bike Church has served as a cooperative bicycle repair center promoting the use of the most sustainable and energy efficient mode of transportation: bicycles. We do this by teaching people how to repair and maintain their bicycles, providing a tool share, and building a strong bicycle-centric community. This promotes empowerment of bicyclists through education while at the same time decreasing waste through reuse. Along with a tool share which includes quality tools for virtually all bike repairs, the Bike Church also houses a bike yard and keeps a variety of used bike parts, all available for reuse. During hours of operation, our entirely volunteer-run organization helps over fifty people every week to fix and maintain their bicycles or to build new bicycles from recycled parts. While the majority of our visitors are UC Davis students, we also serve community members, including many who cannot afford to have their bicycles (sometimes their main form of transportation) fixed professionally. Our flexible donation policy allows visitors to donate through cash or service to the level that they are able. With an improved physical space, we hope to increase our hours of operation and the amount of people served weekly, particularly during the winter months of inclement weather.

Currently, the Davis Bike Church volunteers are implementing an innovative new initiative to increase physical, organizational and administrative efficiency. This initiative is called "The Great Pedal Forward." This movement will create a more inviting and functional space, which will allow us to increase the population served by the Bike Church not only in the campus community, but also in the larger Davis community. It will also help us to use volunteers more effectively through a cleaner and more organized physical space and organizational structure. While the Bike Church has thrived and grown in its first four years, significant financial investment will allow the Bike Church to create a sustainable foundation for serving the community for years to come.

The Bike Church will use funds to create sustainable, weather-proof structures in which to work and store materials. Current makeshift structures, while functional, are not efficient or weatherproof. In poor weather, the Bike Church space gathers standing water, gets blown into disarray and generally becomes unusable. Even after hours of peoplepower fixing the space after a storm, the Bike Church often finds itself once again undoing the damage of another rainstorm. The creation of sustainable, weather-proof structures will not only create a safe, efficient place to store materials, but will also increase use of the Bike Church over the winter months when bikes are often in sore need of repair due to the more degrading riding conditions. Susan Cummings from Environment, Health & Safety encouraged the Bike Church to make more weather-proof structures and we are actively working with Richard Ronquillo and Peter Warwick in housing in making these changes. This will allow the Bike Church to complement and improve the environment at its current location in the Sustainable Research Area near the Domes and Experimental College gardens.

Specifically, the Bike Church will create weather-proof spaces for bike repair and bike/part storage, construction of a fence, landscaping, informative signage and efficient waste management. This is all in addition and a complement to the Solar Power Electrification project. The majority of funds will aid in weather-proofing, with additional funds serving to create a long-term functional and sustainable space that is easily navigated by new patrons and volunteers alike. With improved landscaping, we will improve security and friendliness of the Bike Church and increase our reuse and recycling capacities.

Along with improved physical space, the Great Pedal Forward also includes improvements on the administrative and organizational fronts guided by the development of a long-term strategic plan for outreach, growth and maintenance. This organizational effort will supplement existing outreach efforts. Current endeavors include twelve hours of open Bike Church time when anyone can come learn bike repair or use tools, monthly women-only time at the Bike Church, special bike

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training offered through the Davis People's Free School and other venues, and participation in campus and community events such as Davis Feminist Film Festival, Whole Earth Festival, Picnic Day, Focus the Nation, elementary school visits, Bike Safety Month, Farmer's Market, New Student Orientation and more. With improvements to our organizational and volunteer structure, we will increase our hours of operation and outreach efforts.

Along with funding from the Campus Sustainability Committee, we are pursuing other grant opportunities, individual donations, fundraising events and in-kind donations. These other funding sources will aid in other areas of improvement and maintenance such as tool purchase, printing, marketing, additional physical improvements and limited bike part purchases. The Bike Church's reliance on reuse and volunteer labor greatly reduces costs, allowing us to achieve great things with limited funds.

Once funds are secured, materials will be immediately purchased and weekly work parties will occur over the summer to harness the power of experienced and new volunteers. Taking advantage of the free time of many Bike Church volunteers during the summer months, we plan to focus on weatherproofing all structures before the beginning of the fall quarter. We will then finish up other landscaping features such as signage and bicycle part organization in November, before significant winter rains become too heavy.

UC Davis Mechanical and Aeronautical Engineering Ph.D candidate studying bicycle dynamics and a previous Campus Sustainability Grant recipient and co-creator of the Pedal Power Desk, Jason Moore is the primary grant applicant. In addition to Jason Moore is Matt Seitzler, a graduate student in Mechanical and Aeronautical engineering who is committed to lighting up the world naturally through the previously-funded Campus Sustainability Grant, Solar Electrification of the Bike Church Project and will collaborate in construction planning and implementation. Sarah McCullough, graduate student in Cultural Studies, passionately researches sport and bicycle culture and will lend organizational expertise. Ty Nowotny, a graduate student in Mechanical and Aeronautical Engineering, has several years experience in landscape construction as well as a bachelor's degree in Fine Arts, and will lend his passion for systems integration to improving the beauty, flow and function of the Church's physical space. Christopher Congleton is one of the founders of the Bike Church and Ph.D candidate in Transportation Studies where he is working to make the campus more bicycle and pedestrian friendly. Additionally, the at least twenty other Bike Church volunteers will assist in implementation and work parties.

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### IV. Budget

#### Project Title

Davis Bike Church Physical Space Renovation

#### Project Duration

*Projects should not extend beyond January 23, 2009.*

Project Begins: July 1, 2008	Project Ends: December 31, 2008
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#### Detailed Budget for Project Period

*Please round to the nearest dollar and check your math.*

SUPPLIES (itemize by category) Dome renovation: Heavy duty canvas material for 2 dome covers 5000 yards of heavy duty thread wood for floor and knee walls paint 100 pier blocks decking screws Bike fence construction: 40 T stakes 500 ft bailing wire Pathways and weed reduction: 21 cubic yards of decomposed granite 1000 paver bricks	\$625 \$60 \$769 \$80 \$374 \$50 \$192 \$16 \$1500 \$600
EQUIPMENT (itemize) 2 day skid loader rental for site leveling	\$350
OTHER EXPENSES (itemize by category)	
HONORARIA/PRESENTER FEES (describe)	
<b>TOTAL AMOUNT REQUESTED*</b>	<b>\$4266</b>

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### ADDITIONAL FUNDING SOURCES

The Bike Church is currently raising funds with a goal of \$20,000 by the end of July to fund everything involved in the Great Pedal Forward. We are soliciting private donors, having fundraising events, and writing grants.

\* Requests for reimbursements for items like food, entertainment, transportation, fee remission, benefits, salary, wages, etc. will not be funded. See the [Request for Proposals](#) and [FAQ](#) for more details.