

**2012-2013 GREEN RFP PROGRAM  
STUDENT ORGANIZATION SUSTAINABILITY INITIATIVE FUNDING PROPOSAL**

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| <b>Name of Student Organization</b> | Environmental Coalition at Virginia Tech |  |
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| <b>Contact/Responsible Person</b> | Justin Martin |  |
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| <b>Contact Office Held/Title</b> | Treasurer |  |
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| <b>Contact Email Address</b> | jmartin05@vt.edu |  |
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| <b>Contact Telephone Number</b> | 540-355-6489 |  |
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| <b>Estimated Cost of this Proposal</b> | \$25,000 | See III.C. below |
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| <b>Estimated Savings -</b> | +\$4,500 (minimum) | See III.D. below |
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| <b>Net Cost of this Proposal =</b> | \$21,000 |  |
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| <b><u>Part III- Supporting Information</u></b> |
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| A. Please describe your sustainability initiative and attach supporting documentation. |
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| <p>Biking has become a popular mode of transportation for students to move around campus, as well as to and from campus. Each year the number of bikes registered on campus increases dramatically. In the 2010-2011 school year, Parking Services registered 676 bikes. In the 2011-2012 school year 1378 bikes were registered, and in the current 2012-2013 school year, 976 bikes have already been registered to date. However, the campus does not have enough bike racks to accommodate all of the bikes on campus. Currently, we have 279 bike racks on campus. Most racks have 5-loops and can accommodate 10 bikes. There are also 3-loop and 7-loop racks that can accommodate 6 bikes and 14 bikes respectively. Of the existing racks on campus 186 are in good condition and are in no need of replacements or</p> |
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repair. Alternative Transportation has identified at least 33 bike racks that should be replaced as soon as possible based on their condition and level of use. 57 racks have been identified as in need of replacement or repair, but based on their fair condition or lack of high usage, can be replaced in the near future.

If student's knew that their bike were in a secure and protected location, they will be much more inclined to ride to campus as opposed to drive. This initiative is asking the school to install more bike racks and repair the broken ones. If students know their bikes will not be damaged from wear and tear from neighboring bikes sharing the same rack, then this will increase the incentive to bike to campus rather than drive. In the past several years, Alternative Transportation has been awarded funding through the Green RFP for the installation of new bike racks on campus. In the 2010-2011 Academic year, \$15,450 was awarded to Alternative Transportation to install 15 new racks, and in 2011-2012, twenty-one new racks were purchased with \$20,000 in funds courtesy of the Green RFP. This year, we are asking for \$25,000 to install additional racks on campus to meet the rising demand of cycling on campus.

B. How does this initiative help to achieve the goals of the Virginia Tech Climate Action Commitment Resolution and Sustainability Plan?

Adding more storage space for bikes will reduce the need to drive to campus. Less automobiles around campus will reduce out campus' carbon emissions significantly, helping to achieve the goals set by the Virginia Tech Climate Action Commitment Resolution and Sustainability Plan.

C. What is the cost of your proposal? Please describe in adequate detail the basis for your cost estimate.

The total estimated cost for implementing this project is \$25,000. We estimate that adding a 5 loop bike rack will be approximately \$470. Due to the placement of some of the bike racks we would like to see installed, new concrete may have to be poured as a foundation, which is estimated to be about \$1200 per 5 loop rack installment. \$25,000 would allow the Alternative Transportation staff to purchase and install approximately 20-25 new racks and additional concrete pads where needed. The exact locations for bike rack additions and repairs will be determined by the Alternative Transportation staff in coordination with the University Landscape Architect, Residential Life, and FS Operations.

D. Will your proposal produce cost savings for the University? If so, how much? Please describe in adequate detail the basis for your savings estimate.

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With more bike racks, students will be able to drive to campus less. With parking lot surfaces costing \$3200 to construct and \$50 a year to maintain, the university would benefit from more cycling as a form of commuting to campus. Furthermore, a parking spot in a parking garage costs \$1,700 to construct and about \$60-\$100 a year to maintain. If every 5-loop bike rack can comfortably hold 10 bikes, with the installation of 6 new bike racks, the university could potentially save over \$4,800 in maintaining parking spaces alone.

E. Is this funding request an Ongoing or One-Time change (please check one)?

One-time

Ongoing

F. Is funding available for this request from another source? If yes, describe the funding (source, amount, etc.)  
N/A

We do not believe that there is an additional source to receive funding for this project

**Part IV- Requestors/Reviewers**

Prepared By (Name of Contact for Student Organization)

Justin Martin

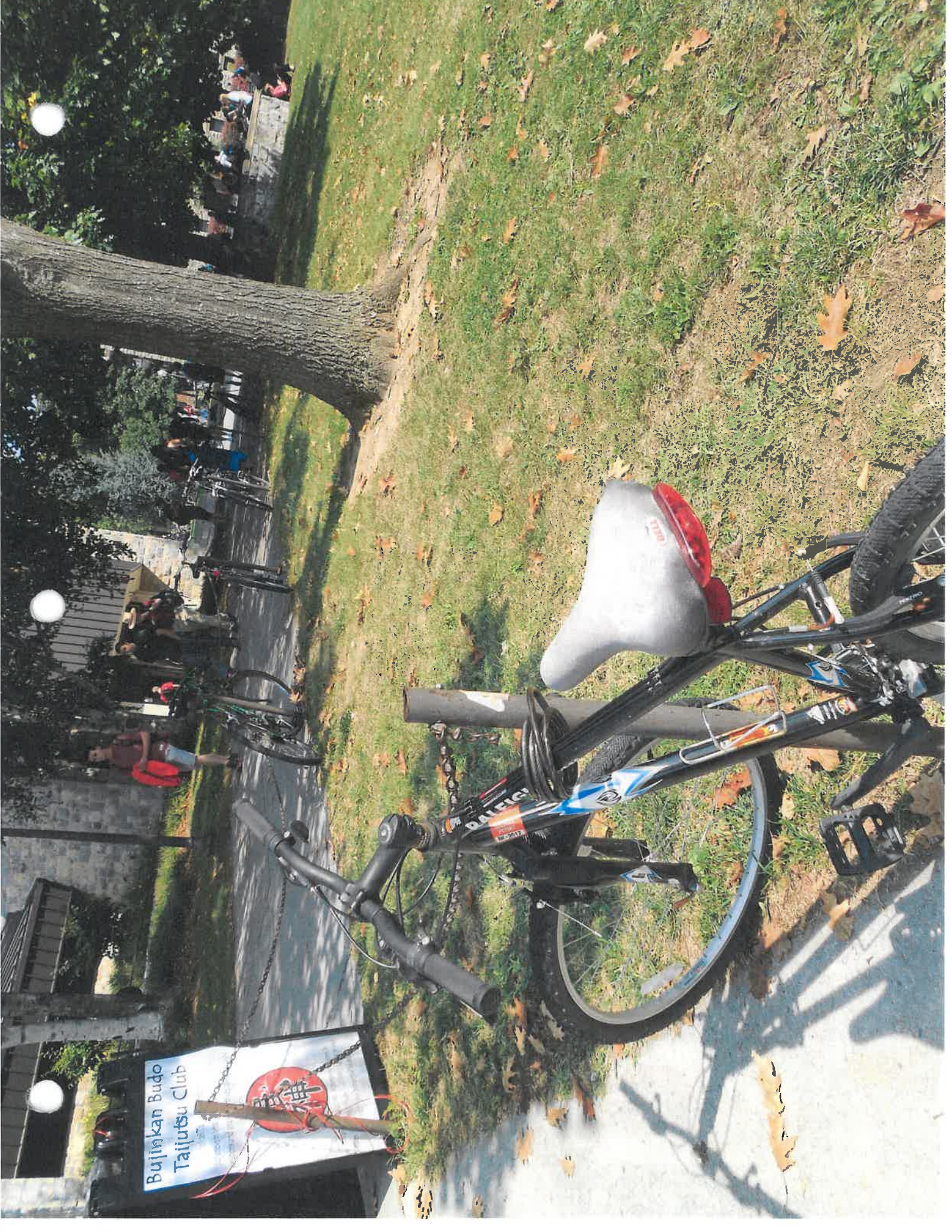
Nov 28, 2012

Reviewed By (Name of Office of Energy and Sustainability Representative)

  
Denny Cochran

Nov 28, 2012





Bujinkan Budo  
Taijutsu Club





