

Roof Access Request Form for Atkinson Hall

For safety and security reasons, access to the Atkinson Hall roof is restricted to authorized personnel and users only. For limited use, access to the roof may be provided for academic or research purposes. Authorization for access to roof areas is reviewed on a case-by-case basis. Please complete all fields of this form for your request to be considered:

Description of the project

(Please provide a brief description of the project.)

We are building flexible electronics to measure UV exposure. So we have UV sensors that we need to calibrate in UV light from the Sun. We need to verify our flexible electronics patch vs. an expensive “Ground Truth” Version. So, the basic idea of our experiment is that about once a week, we would place our sensors on the roof to collect data in the morning. Then in the afternoon, we would come back to collect our sensors and stop recording and collecting data.

As a part of the prototyping lab, our development happens in house. So, we would like the testing to remain in house as well. We need modify code, circuit components, and verify our calibration curves match our specifications.

This patch will be used to estimate UV exposure on children. So, in the future, these children will be equipped with this UV wearable patch. The patch will measure the UV light exposure and prompt the children to come inside when the exposure has reached a certain limit. Additionally, we would like to map correlation curves from the local area’s UV index to an individual’s personal UV exposure.

Scope of access

(Describe what your project requires in terms of roof access, including square footage and resources (power, Ethernet, etc.) needed, expected frequency of access, etc.)

Square Footage: 1 ft²

Resources: Direct Sunlight & 1 Power Outlet

Expected Frequency: 1 Day Per Week, Morning & Afternoon

Duration of requested roof access

(Roof access can only be approved for a 6 month period maximum. A new request form will need to be filled out before the current end date, if an extension is needed.)

3/8/18 – 7/6/18

Reason for access

(This has to include why the activity has to occur on the roof of Atkinson Hall, rather than that of another building on campus.)

Our project needs a safe, secure location to leave our expensive solar UV detection sensors to record UV data for long periods of time. Additionally, we need a location that has undisturbed solar view from other buildings. Calit2 would be the perfect candidate. Additionally, as a part of the prototyping lab, the access would be very convenient to perform tests and collect Data.

List of users

(A complete list of users that require roof access (people not included on this list are not allowed on the roof). Include name, job title/status, and student ID number/employee ID number.)

Carl Demolder, Hardware Engineer, A11502931 – CarlDemolder@gmail.com

Marcelo Aguilar-Rivera, Postdoc, 000315996 - mia003@eng.ucsd.edu

Kelsey Fahy, Masters Student, CRES, A53246481 - ktfahy@eng.ucsd.edu

Principal Investigator

(A PI needs to assume end responsibility. List the name, affiliation, email and phone number of the PI.)

Name: Dr. Jennifer Vanos

Affiliation: Climate, Atmospheric Science, and Physical Oceanography at Scripps Institution of Oceanography, and the Department of Family Medicine and Public Health in the School of Medicine

Email: jkvanos@ucsd.edu

Phone: 858-534-9968

Index Number

(An index number needs to be provided to charge if damage was done, or items were left on the roof after the conclusion of the project or approved duration. This index number needs to belong to the PI listed above.)

CAPR1JV

Contact Information

(Names and phone numbers where the team lead or other team members can be reached 24/7 in case of an emergency).

Carl Demolder: 760-626-5074

Dr. Jennifer Vanos: 858-534-9968

Access is limited to users actively working on approved projects, and only when it is necessary for their work. If approved, roof access for academic purposes will be granted during business hours (Monday-Friday, 7am-7pm) only.

Every user needs to read and sign the “Rules for Roof Access” and abide by them. It is the responsibility of the PI, team leader and each individual user to ensure safety rules and procedures are followed. Abuse of roof access may lead to revoking access or university disciplinary procedures. The Qualcomm Institute is not responsible for any injury or death that may occur from your activities on the roof.

The PI acknowledges that the index number listed above is his/hers and that it will remain valid until at least one month after the proposed end date of the requested roof access. The PI also approves that this index number may be charged if damage was done, or items were left on the roof after the conclusion of the project or approved duration (at a cost to cover the damage, including the man-hours required for repair of the damage, for removal/disposal of items left on the roof, for the efforts to restore the roof to the state it was in at the start of the project, etc.). The PI will be notified before charges will be made to the index.

Signature of the team lead

Date

Carl Demolder

3/6/18

Signature of the PI

Date