

# BRIMACOMBE PI Request to Restart Research: Phase I only

Complete this form and submit to John Madden ([ampel.dir@ubc.ca](mailto:ampel.dir@ubc.ca)) cc'ing Gary Lockhart ([Gary.Lockhart@ubc.ca](mailto:Gary.Lockhart@ubc.ca)) in order to request approval for restarting research. SBQMI members please also copy Andrea Damascelli ([andrea.damascelli@ubc.ca](mailto:andrea.damascelli@ubc.ca)) and Pinder Dosanjh ([dosanjh@phas.ubc.ca](mailto:dosanjh@phas.ubc.ca)). Please also cc your department head or appropriate departmental contact. Once approved, complete and sign the Access Agreement (sent to you separately) and have it posted on each exterior lab door.

Applications will be accepted immediately. The re-opening date will depend on approval of faculty level restart plans, in addition to the time taken to review applications. Additional forms and approvals may also be required.

**Name:** Jeff Young

**Department/Institute:** Physics and Astronomy

**Email:** young@phas.ubc.ca

**Phone#:** [REDACTED]

**Standard hours of return:** Phase I occupancy 7 AM to 6 PM Monday to Friday.

**1. Briefly outline proposed experiments/research that require on-campus access:**

Cryostage system, allowing measurement of chips at cryo temperatures

Photoluminescence measurements of Se-doped samples

Fabrication of single photon detectors

Quantum Key Detector measurements

NIR Photoluminescence

**2. Building name:** Brimacombe

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3. For each room occupied by the PI, indicate the room number, the total number of personnel who usually work in that space, the total number of personnel who need to access the room, and the maximum number who will work in the room at once. Note that UBC is aiming for 1/3 occupancy of spaces during Phase 1, and that there must be space for physical distancing.

Room #	Total # of personnel (usual)	Total # of personnel who need access to the space	Max. # at one time during Phase 1
345	9	2 regular users (Donald, Becky)  2 occasional users (Adam, Jeff)	2
347	9	1 regular user (Xiruo)  5 occasional users (Adam, Adan, Becky, Adam, Jeff)	2

Jeff will be present up to 4 hours per week to provide guidance on the cryostage system project. Jeff will not work directly on equipment, and will maintain 2m distance from other personnel.

#### 4. Is your lab space shared? Yes / No

*If yes, indicate how you will coordinate with adjacent groups or personnel. For the SEM, 2D materials lab, CRN and similar spaces shared by multiple PIs, please submit one form with the names of all users from multiple groups. For the high head area, please submit one form per research group or service (e.g. Helium), and specify the area and PIs that are involved. You may include part of the high head along with other lab space on one form (e.g. CRN occupies lab space in high head and in the Brimacombe extension). In some cases groups may decide it is easier to submit separate forms for each space they work in. We are flexible in the formats we will accept.*

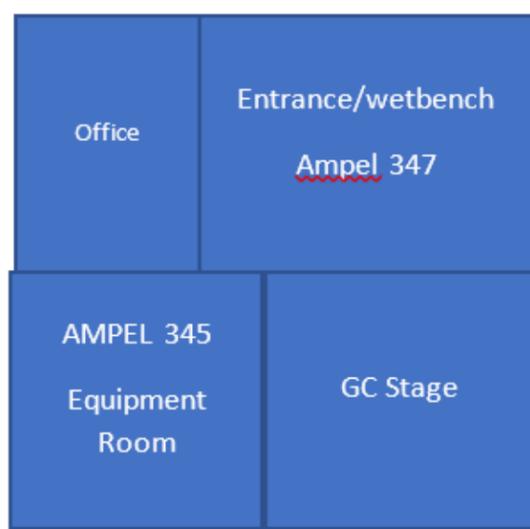
#### 5. Describe how you will ensure physical distancing within your lab.

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Both AMPEL 345 and 347 are large enough to accommodate 2 people at once and maintain 2m separation comfortably. As such, there will be a limit of two people per lab room at a time. A total of 3 people between both lab rooms 345 and 347 will be allowed at one time. All access times in the lab will be booked by online calendar.

Only one person will be allowed in the office area at one time. Floorplan of the lab areas and office are shown



**6. How will you schedule occupancy of your lab space? Phase I occupancy 7 AM to 6 PM Monday to Friday.** *e.g. online sign up, weekly discussion in lab meeting to prepare a schedule together, other?. Ensure that people on the same shift are not in conflict for the same resources in their own lab. Include an example plan with the application. Schedules should be posted on the lab door weekly. **Note:** at any one time, UBC is aiming for **ca. 1/3 occupancy** during Phase 1. If you request after hours access, this should be thoroughly justified here.*

All shared equipment and lab rooms have an online booking calendar. Equipment and lab rooms are booked one week in advance, and will be discussed in weekly meetings to ensure no conflicts. Calendars will be printed each week and posted on lab door.

- Online calendars are stored on the lab Nextcloud server and URLs are:
  - AMPEL 345: <https://qdot-nexus.phas.ubc.ca:25683/apps/calendar/p/Y37CNBgtSCiTrqm>
  - AMPEL 347: <https://qdot-nexus.phas.ubc.ca:25683/apps/calendar/p/5Ai9qTLGb8rXwbeA>

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## 7. Outline plans to address working alone regulations.

If a user is working alone in a lab, they will inform their plan on the SiQL Slack channel (siql.slack.com) the day before entering. They will provide a time when they plan to enter, an expected duration, and a brief description of the work.

Each user will have a remote buddy that they will check in with on Slack. The buddy must acknowledge on Slack that they will be available for remote check-in BEFORE the user enters the facility. Each user will send a message on Slack when they:

1. Enter the laboratory
2. Every 2 hours that they are in the room
3. When they leave the room

If the remote buddy does not receive a scheduled update via Slack, then they will attempt to reach the user by email and by phone call. If they are unable to reach the user by these secondary methods, then the remote buddy will call campus security and ask security to check in physically (UBC Security Number 604-822-2222).

No work with hazardous materials will be allowed while working alone.

**8. Identify high-contact points that need to be sanitized (doorknobs, fridge handles, switches, communal keyboards, work surfaces, chairs etc.) and all multi-user instruments and equipment in your lab(s), their location, sanitization protocols:** this includes items only used by your lab group. The protocols should be posted as a checklist at the entrance for research personnel to complete before and after each shift.

Doorknobs, light switches, faucets will be wiped with alcohol wipes after each use.

Computer keyboards and mice will be wiped with alcohol before and after each user uses them.

Tools will be wiped with alcohol wipes before and after use. Once cleaned, tools will be stored in appropriate drawers and containers.

## 9. Are there any tasks where physical distancing cannot be maintained? Yes / No

**If yes**, describe the task, explain why it is important to perform in the coming month, and describe the frequency and duration of tasks. What safety measures will be taken to mitigate risks?

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## 10. Is equipment in your lab space used by personnel from other labs? Yes / No

If **yes**, explain how you will arrange for other users to access this equipment while maintaining physical distancing. How will this equipment be sanitized between users? List the anticipated users below in section 13.

## 11. Will you need to access equipment located in other research labs, or your lab equipment housed in shared equipment rooms in your building? Yes / No

If **yes**, list the equipment or room numbers and how will this be arranged. How will this equipment be sanitized between users?

AMPEL 445 – Scheduling of AMPEL 445 will be through this Nextcloud calendar to ensure physical distancing.

- AMPEL 445: <https://qdot-nexus.phas.ubc.ca:25683/apps/calendar/p/3wCmCwFkxe5qmP42>

Nanofab AMPEL 446/449 – will book through Bumble to ensure maximum number of users do not exceed a certain number simultaneously. Gowns will be stored separately, and will not be shared.

EBL in QMI 65 – EBL will be booked through Bumble, and only 1 user will be allowed at a time.

AMPEL 463 - AJA PVD Sputter will be booked through Bumble and users will be limited by nanofab staff.

QMI 63 - Zeiss SEM - Coordination will be through PIs Josh Folk and Chadwick Sinclair.

AMPEL 343 – AFM – Coordination will be through PI Josh Folk

AMPEL 273 – PPMS will be booked through Bumble and use will be limited by nanofab staff.

## 12. Will you need to access equipment or services in other buildings? Yes / No

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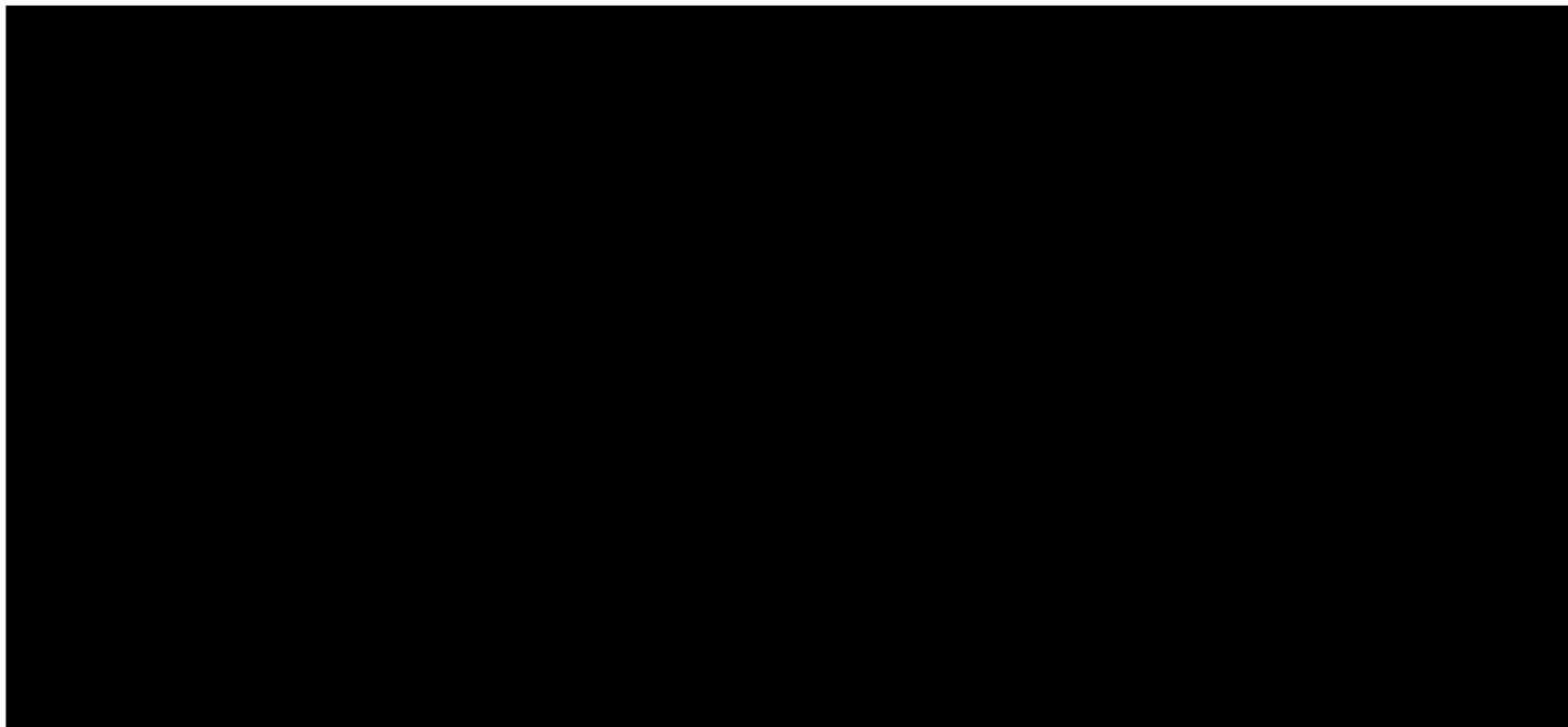
If **yes**, List. e.g. BiF, Chem Stores, Kaiser, Frank Forward, Henning's, ...

Liquid Nitrogen

Liquid Helium

**13. It is mandatory for Phase 1 that all research personnel have appropriate certified training. Will all personnel from your group accessing the lab be certified prior to having access, including new COVID-19 video training? Yes / No**

Identify each of the personnel below who will require access to on-campus space (information will be attached to the fob access to the building):



**14. Explain below how you will prioritize research personnel in your group to access lab space.**

Research that directly impact graduation dates of students will be prioritized. Students and personnel that can avoid working in the lab will work remotely.

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I agree to abide by the rules and procedures I have described above during UBC's Phase 1 of research resumption. I acknowledge that failure to uphold the commitment confirmed here could result in the loss of research access privileges. *Signatures of additional PIs who share the space should be added.*

Signed (PI1):

Signed

Date:

May 29 / 2020

Add as needed:

Signed (PI2):

Date:

Signed (PI3):

Date:

Approved by:

John D Madden, AMPEL Director

Signed

9 June 2020

Colin Gay, Head, Physics and Astronomy

Signed

9 June 2020

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