

Regulated Research Institutional/Industrial Setting Form (1C)

This form must be completed AFTER experimentation by the adult supervising the student research conducted in a regulated research institution, industrial setting or any work site other than home, school or field.

Student's Name(s) _____

Title of Project _____

To be completed by the Supervising Adult in the Setting (NOT the Student(s)) after experimentation:

(Responses must be on the form as it is required to be displayed at student's project booth; please do not print double-sided.)

The student(s) conducted research at my work site:

1. Did you or your proxy (e.g. graduate student, postdoc, employee) mentor or provide substantial guidance to the student researcher? ☐ Yes ☐ No
 - a. If no, describe your and/or your institution's role with the student researcher and his/her project (e.g. supervised use of equipment on site without ongoing mentorship and sign below.
 - b. If yes, complete questions 2 – 5.
2. Is the student's research project a subset of your ongoing research or work? ☐ Yes ☐ No

Use questions 3, 4 and 5 to detail how the student's project was similar and/or different from ongoing research or work at your site.
3. Describe the independence and creativity with which the student:
 - a. developed the hypotheses or engineering goals for the research project
 - b. designed the methodology for his/her research project
 - c. analyzed and interpreted data

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Student's Name(s) Kyle Pinzon

4. Detail the student's role in conducting the research (e.g. data collection, specific procedures performed). Differentiate what the student observed and what the student actually did.

Kyle spent the first two weeks observing the operation of the instrument called the Quantachrome ChemBET Pulsar and an Enerac gas analyzer. After the first two weeks, Kyle was able to independently operate the Quantachrome, collect data using the Enerac, and perform data analysis. Kyle also observed the preparation of catalyst material, handling gas cylinders, and operation of a fixed bed reactor. Kyle's work will be used as a baseline for future scale-up work in our lab.

5. Did the student(s) work on the project as part of a group?

☒ Yes

☐ No

If yes, how many individuals were in the group and who were they (e.g. high school students, graduate students, faculty, professional researchers)?

Kyle worked as part of the DFM research group. Though Kyle was independent through most his time in our lab, he was supervised by two Ph.D students and shadowed one Masters student.

I attest that the student has conducted the work as indicated above and that any required review and approval by institutional regulatory board (IRB/IACUC/IBC) has been obtained. Copies are attached if applicable.

I further acknowledge that the student will be presenting this work publicly in competition and I have communicated with the student research regarding any requirements for my review and/or restrictions of what is publicized.

Robert Farrauto

Supervising Adult's Printed Name

Signature

Columbia University, Earth and Environmental Engineering

Institution

918, 500 W. 120th st, New York, NY 10027

Address

Prof. of Practice

Title

9/13/19

Date Signed (must be after experimentation) (mm/dd/yy)

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Email/Phone