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.

Stı	ıde	nt's Name(s)	Riya Patel							
Title of Project		of Project	Characterization and Performance of Next Generation Ultrafiltration Fouling-Resistant Polymeric and Lyocell Cellulose Nanofiber							
To (R	be espo	completed by	Wastewater Treatment Membranes the Supervising Adult in the Setting (NOT the Student(s)) after ex the form as it is required to be displayed at student's project booth; please of	perimenta	tion:					
	stı Di	udent(s) conduct d you or your pr bstantial guidan	ted research at my work site: oxy (e.g. graduate student, postdoc, employee) mentor or provide ce to the student researcher? your and/or your institution's role with the student researcher and t (e.g. supervised use of equipment on site without ongoing mentorship		Yes		No			
	b.	If yes, complet	te questions 2 – 5.							
2	Us	se questions 3, 4	search project a subset of your ongoing research or work? and 5 to detail how the student's project was similar and/or oing research or work at your site.	Ø	Yes		No			
3.	De a.	escribe the inde developed the	pendence and creativity with which the student: hypotheses or engineering goals for the research project							
		Riya's idea for from her passi however Riya the project sub	finding a more economical, environmentally-friendly and efficient wastewat on to mitigate the global water epidemic. The initial research question was added new objectives and explored associated and diverse questions regal smitted herein. Her project develops an all-cellulose based membrane for efficient potential for ultrafiltration technology.	a subset of ding waster	anotne vater ti	er proje reatme	ect, ent and			
	b.	designed the r	nethodology for his/her research project							
		Although many of the methodologies involved in Riya's research were already established, Riya introduced transformative methodologies that were not originally part of the summer's plan such as the in silico mechanisms of fouling on a Jupyter Notebook Code. She was also trained in numerous basic laboratory methodologies such as water contact angle, FTIR and SEM and underwent a lot of trial and error to find optimal parameters for the instruments.								
	c.	analyzed and i	nterpreted data							
		post-fouling (F different DOs a analysis. I woul summer arising rate data for the	ted in the research report were collected by Riya including pre-fouling (SENTIR, water contact angle and in silico mechanisms of fouling) and dead-end and ADs). After initial instruction, Riya was able to individually and comprehed often test her comprehension of our analyses and it was because of her a from her reading that she was able to analyze difficult data at an advance different membranes were analyzed to determine optimal antifouling propestigations were also analyzed by Riya independently.	filtration test ensively con questions the d level. All h	sts (un mplete rough er filtra	der her dout the ation fl	ata			

(Continued on next page)

Regulated Research Institutional/Industrial Setting Form (1C) Continued

udent's Name(s) Riya Patel					
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.					
level experiments at a fast pace. Mos membrane's filtration over time. Riya the first few processes because of the the SEM, zeta potential, FTIR, and w	at of the data in this project is the fouling to collected all this data herself for more than the delicacy of creating them however later to	usions and she also learned and caught on to gradual ests which are 5 to 6 hours experiments to test a in 25 tests. For the membrane creation, Riya observed she was able to create membranes independently. For e procedure once and then independently conducted to her to work individually.			
	h julia				
Did the student(s) work on the pro If yes, how many individuals were i students, graduate students, facult	n the group and who were they (e.g. hig	□ Yes □ N			
There were two group member	ers involved: Riya and I (Graduate Stud	dent)			
	271 - 4 - 142				
	7.0				
attest that the student has conduc	ted the work as indicated above and the IACUC/IBC) has been obtained. Copies	at any required review and approval by			
further acknowledge that the stud	ent will be presenting this work publicly	y in competition and I have communicated with th			
tudent research regarding any requ	uirements for my review and/or restrict	tions of what is publicized.			
Mengying Yang	Menguing Yang Signature	Graduate Student			
upervising Adult's Printed Name	Signature 0 0	Title			
Stony Brook University		8/26/19			
nstitution		Date Signed (must be after experi- mentation) (mm/dd/yy)			
		mengying.yang@stonybrook.edu/(631) 428-870			
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