Solicitation/Award No. (if applicable): DE-SC0018875

U. S. DEPARTMENT OF ENERGY, OFFICE OF SCIENCE INTEGRATED SUPPORT CENTER—CHICAGO OFFICE

NATIONAL ENVIRONMENTAL POLICY ACT (NEPA) ENVIRONMENTAL EVALUATION NOTIFICATION FORM

To be completed by "Applicant," i.e., organization with responsibilities for a "Federal action" involving application to DOE for a permit, license, exemption or allocation, or other similar actions. For assistance with this Form, refer to "Instructions for Preparing ISC-CH F-560, Environmental Evaluation Notification Form."

Orgar	nization Name:	Akron, OH	
Propo	osed Action Title:	: A Machine Learning based Discrimination Aided Discovery Platform for High Throughp Screening of Multifunctional	out
Total	DOE Funding/To	otal Funding: \$150,000.00	
1.7	Project Descript	tion: (Use explanation pages if additional space is required)	
Researd	50	Project/Action (if applicable, delineate Federally funded/Non-Federally funded portions) PTION: Artificial Neural Network medils would be Duilt bared on reactivity descriptors that are specific to advantation molecular geometry and vanoparticle feature size territivity analyses would be dance to improve the initial training of data sets for a similar set of contaminants. Robustness of the moradel would be total by running them on a dissimilar system. Finally, hypothetical nanomaterials and freets would be proposed to experimental collaborators.	
		Yes project proceed without Federal funding? See explanation page.	No D
Ū.	All of the	httected Environment: (Use explanation pages if additional space is required) proposed work effort involves modeling and simulation, ied out indoors. He significant import on environment med.	
	The novel aim to. This we collabore as pour	L'estalysts that may result from the proposed mork invenes sumediation efficiency of contaminated water.	e 1 of 4

		DOE NEPA 1	Tracking Number	
11.	Pre	liminary Questions:		
	^		Yes	No
	Α.	Is the DOE-funded work routinely administrative or entirely advisory or a "paper stud-	<u> </u>	
		If "Yes", ensure that the description in Section I reflects this and go directly to	Section V.	
	B.	Is there any potential whatsoever for: (Provide an explanation for each "Yes" res	ponse)	
		Work to be performed outdoors?		E
		2. Major modification of a building interior?		
		3. Threat of violation of applicable statutory, regulatory, or permit requirements	for \square	
		environment, safety, and health?Siting, construction or major expansion of waste treatment, storage, or dispose	osal 🗆	P
		facilities?	_	
		5. Disturbance to hazardous substances, pollutants, or contaminants preexisting	ng in the	
		environment? 6. The presence of any environmentally-sensitive resources?	П	
		7. Any potential whatsoever for high consequence impacts to human health or	the 🗒	
		environment?	(v)	
		8. The work being connected to another existing/proposed activity that could potentially create a significant impact?	.1	ш
		 Nearby past, present, and/or reasonably foreseeable future actions such that 	t collectively	
		significant impacts could result?		مسكسا
		 Scientific or public controversy, uncertainty over potential impacts, or conflict resource usage? 	is regarding L	
		100000000000000000000000000000000000000		
		If "No" to ALL Section III.B. questions, go directly to Section V.		
V.	Pot	ential Environmental Effects: (Provide an explanation for each "Yes" response)		
	A.	Environmentally Sensitive Resources: Could the proposed action potentially result in disturbances to any of the following resources?	n changes and/or	
		distarbances to any or the following resources?	Yes	No.
		Threatened/Endangered Species and/or Critical Habitats		Æ.
		2. Other Protected Species (e.g., Burros, Migratory Birds, Pollinators)		
		 Sensitive Environments (e.g., Tundra/Coral Reefs/Rain Forests) Cultural or Historic Resources 		4
		 Cultural or Historic Resources Important Farmland 	님	
		6. Non-Attainment Areas for Ambient Air Quality Standards	H	1
		7. Class I Air Quality Control Region	H	1
		Special Sources of Groundwater (e.g. Sole Source Aquifer)	H	7
		9. Navigable Air Space	Ħ	A.
		10. Coastal Zones		-E
		 Areas with Special National Designation (e.g. National Forests, Parks, Trails) 		P
		12. Floodplains and/or Wetlands		
	B.	Regulated Substances/Activities: Would the proposed action involve any of the follo	wing regulated Ite	ems or
		activities?	***	
		13. Natural Resource Damage Assessments		D
		14. Invasive Species or Exotic Organisms	H	1
		15. Noxious Weeds	님	1
		 Clearing or Excavation greater than one acre or Removal of Trees Governed 	by 🗂	F
		Local Requirement	,	based
				_

Dredge or Fill (under Clean Water Act, Section 404, greater than one acre)

17.

DOE	NEPA	Tracking	Number

activities? (continued) 18. Noise (in excess of regulations) 19. Asbestos Removal 20. Polychlorinated biphenyls (PCBs) 21. Import, Manufacture, or Processing of Toxic Substances 22. Chemical Storage/Use 23. Pesticide Use 24. Hazardous, Toxic, or Criteria Pollutant Air Emissions 25. Liquid Effluents	Yes Philippin
 Asbestos Removal Polychlorinated biphenyls (PCBs) Import, Manufacture, or Processing of Toxic Substances Chemical Storage/Use Pesticide Use Hazardous, Toxic, or Criteria Pollutant Air Emissions Liquid Effluents 	
 Asbestos Removal Polychlorinated biphenyls (PCBs) Import, Manufacture, or Processing of Toxic Substances Chemical Storage/Use Pesticide Use Hazardous, Toxic, or Criteria Pollutant Air Emissions Liquid Effluents 	
 Polychlorinated biphenyls (PCBs) Import, Manufacture, or Processing of Toxic Substances Chemical Storage/Use Pesticide Use Hazardous, Toxic, or Criteria Pollutant Air Emissions Liquid Effluents 	
 21. Import, Manufacture, or Processing of Toxic Substances 22. Chemical Storage/Use 23. Pesticide Use 24. Hazardous, Toxic, or Criteria Pollutant Air Emissions 25. Liquid Effluents 	
 22. Chemical Storage/Use 23. Pesticide Use 24. Hazardous, Toxic, or Criteria Pollutant Air Emissions 25. Liquid Effluents 	
 23. Pesticide Use 24. Hazardous, Toxic, or Criteria Pollutant Air Emissions 25. Liquid Effluents 	
24. Hazardous, Toxic, or Criteria Pollutant Air Emissions25. Liquid Effluents	
25. Liquid Effluents	
26. Spill Prevention/Surface Water Protection 27. Underground Injection	i i
28. Hazardous Waste	H T
	H F
	F F
	H H
31. Radiation Exposure 32. Nanoscale Materials	
33. Genetically Engineered Microorganisms/Plants or Synthetic Biology	H B
	i i
34. Ozone Depleting Substances35. Greenhouse Gas Generation/Sustainability	
36. Off-Road Vehicles	H H
37. Biosafety Level 3-4 Laboratory	i j
38. Research on Human Subjects or other Vertebrate Animals	i j
39. Facility footprint exceeds 5,000 Square Feet	i j
C. Other Relevant Information: Would the proposed action involve the following?	
C. Other Relevant information. Would the proposed assert inverte are rementing.	Yes No
40. Disproportionate Nearby Presence of Minority and/or Low Income Population	
41. Existing, Modified, or New Federal/State Permits	
42. Involvement of Another Federal Agency (e.g. license/permit, funding, approv	ral) 🔲 🗗
43. Action in a State with NEPA-type law	
44. Expansion of Public Utilities/Services	
45. Depletion of a Non-Renewable Resources	
46 Subject to an Existing Institutional Work Planning and Control Process	
47. Other Pertinent Information Which Could Impact Human Health or the Enviro	onment []
Applicant certification that to the best of their knowledge all information provided on this fo	orm is accurate:
	Yes No
Does this disclosure contain: classified, sensitive business, or other exempt information to	hat DOE 🔲 🖊
would not be obligated to disclose pursuant to the Freedom of Information Act.	
	12 102
A. Organization Official (Name and Title): KSHITIJ C. THA (FOUR	NOER / PRESIDENT)
Signature: 16 hity Date: 08/	03/18
Signature. Parag	
e-mail: Kcjha e bienatech. com Phone: 330	5-396-0606
B. Optional Secondary Approval (Name and Title):	
Signature: Date:	
Phone:	
e-mail: Phone:	

DOE NEPA	Tracking	Number	

Remainder to be completed by DOE

1.	DOE	Concurrence/Recommendation/Determination:		
	A.	DOE Project Director/Program Manager or Contract/Grant Management Specialist:	Yeş	No
		Has the Applicant completed this Form correctly? Does an existing generic categorical exclusion apply?		
		If yes, indicate:		
		Name and Title: Hannah Gill Contract Specialist		
		Signature: Date: 8/(1/2)	518	
	B.	DOE NEPA Team Review (if requested):	Yes	No
		Is the class of action identified in the DOE NEPA Regulations (Appendices A-D to Subpart D (10 CFR § 1021))? If yes, specify the class(es) of action:		
		Name and Tille: Peter Stebach		
		Signature: Date: 8/10	2018	
	C.	DOE Counsel (if requested):		
		Name and Title:		
		Signature: Date:		
	D.	DOE NEPA Compliance Officer:		
		preceding pages are a record of documentation required under DOE Final NEPA Regula I.410.	ation, 10 CFR §	
/	M	Action may be categorically excluded from further NEPA review. I have determine action meets the requirements for Categorical Exclusion referenced above.	d that the propose	ed
		Action requires approval by Head of the Field Organization. Recommend preparate Environmental Assessment.	tion of an	
		Action requires approval by Head of the Field Organization or a Secretarial Officer preparation of an Environmental Impact Statement.	. Recommend	
		Comments/limitations if any:		
		NEPA Compliance Officer:		
		Name: Peter SieDo-ch	0/10/201	D.
		Signature: Date:	3/10/201	0
		1		

DOF	NFPA	Tracking	Number

Optional Additional Narrative: (add additional detail to description to Sections I and II or explanations to responses in Sections III and IV.