RESEARCH AND DEVELOPMENT DISCLOSURE REPORT

February 25, 2019 through April 29, 2019

Reason for Conflict	External Entity	Owner	Principal	Co - P.I.'s	College	Period of	Award	Project Description
			Investigator			Performance	Amount	
Employee Owned Business Involved in Research	Mayfair Group, LLC	Edward Fox	Edward Fox	Dr. Hsaio	Computer Science	February 15, 2019 through December 31, 2019		Dr. Edward Fox, professor in computer science, has an equity interest in Mayfair Group, LLC in Norfolk, VA. Saurabh Chakravarty a computer science student is working toward his PhD, which is focused on summarization of legal depositions, closely related to Mayfair Group, LLC technologies. He has a fellowship covering \$18,000 in tuition paid by Mayfair for spring and fall semesters 2019. Dr. Fox is Saurabh's academic advisor. The fund anticipated to be used for this effort is Dr. Fox's Foundation Fund in Sponsored Programs 444465.Dr. Fox is teaching a course CS4624 this spring semester titled Multimedia, Hypertext, and Information Access). This is a project based course where students select one of several projects from existing small companies. Mayfair is listed as a potential project. Six students have selected the Mayfair project and the entity will provide \$5,000 to the foundation to support this class project, VTF 876659. A management plan was developed to mitigate the risk of this conflict.

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Employee Owned Business Involved 2 in Research		Masoud Agah	Masoud Agah		Electrical and Computer	February 20, 2019 through December 31,		Dr. Masoud Agah, professor in
in Research		Agan			Engineering	2019		electrical and computer
					Lingineening	2019		engineering, has an equity
								interest in Zebra Analytix, Inc.
								and serves as the Chief
								Technology Officer. Zebra
								Analytix, Inc. plans to contract
								with the university to fabricate,
								coat, and initial tests of
								chips/sensors and subsequent
								follow-up analysis and
								collaboration. A management
								plan was developed and Dr. GQ
								Lu, professor in Materials
								Science Engineering, will serve
								as the independent co-PI for
								research, student, and financial
								oversight.
Employee Owned Business Involved A		Richard	Todd Lowe	n/a	Aerospace &	January 30, 2019	61,000	Dr. Richard Burdisso, Virginia Tech
in Research		Burdisso			Ocean	through June 30, 2019		professor in Mechanical Engineering,
					Engineering			has an ownership interest in AVEC, Inc.
								a non-publicly traded entity. Burdisso
								also serves in a management role as the President of AVEC, Inc. The company
								plans to issue a contract to Virginia
								Tech for R&D. A management plan was
								developed for this conflict and Dr.
								Burdisso has recused himself from being
								involved in this project. Dr. Todd Lowe,
								associate professor in Aerospace &
								Ocean Engineering, will be the lead
								principal investigator on the project. Dr. Lowe has confirmed that he nor does his
								research team have a significant
								financial interest or any other financial,
								advisory, or managerial relationship
					1			with AVEC, Inc.
								with A v LC, Inc.

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Employee Owned Business Involved in Research	Continuum Biosciences, Inc.	Webster Santos	Webster Santos	David Kingston	Chemistry	March 11, 2019- February 29, 2020		This is a continuuation of an existing sponsored project. Dr. Webster Santos holds equity interest in a start-up company Continuum Biosciences, Inc. The company is licensing IP work in Santos' lab which is jointly owned by VT and UVA. This entity seeks to contract R&D with Virginia Tech for a project titled Mitochondrial Uncoupler Drug Discovery. This is a continuation of work conducted with this entity at the University under a new contract. A continuation award has been received by the Office of Sponsored Programs from Continuum Biosciences with Dr. Santos as the lead investigator. The project is titled Mitochondrial Uncoupler Drug Discovery and the proposed work is to develop mitochondrial uncouplers that do not depolarize plasma membranes. A management plan was developed and Dr. David Kingston will serve as independent oversight.
Employee Owned Business Involved in Research	Zebra Analytix, LLC	Masoud Agah	Masoud Agah	GQ Lu	Electrical and Computer Engineering	February 25, 2019 through June 30, 2019		Dr. Masoud Agah, professor in electrical and computer engineering, has an equity interest in Zebra Analytix, Inc. and serves as the Chief Technology Officer. Zebra Analytix, Inc. plans to contract with the university to fabricate and test chips/sensors. A management plan for Dr. Agah has been developed. Dr. GQ Lu, professor in Materials Science Engineering will serve as the independent co-PI for research, student, and financial oversight. This plan will be reviewed and approved by appropriate management at the department, college and the COI Officer prior to execution of the sponsored agreement.

Employee Owned Business Involved	Jensen Hughes	Brian	Kramer Luxbacher	n/a	Mining and	March 28, 2019 through	45,000	Professor Brian Lattimer is an
in Research		Lattimer			Minerals	December 31, 2019		adjunct professor in Mechanical
					Engineering			Engineering. He teaches a semester
								long course for the university in the
								spring and fall of each academic
								year. He is not involved in research
								at the university in his role as an
								adjunct. Dr. Lattimer is employed
								by Jensen Hughes and informed the
								COI Office in March of 2019 that he
								has an equity interest in Jensen
								Hughes since 2016. Jensen Hughes
								is listed as a subcontractor on a
								Center for Disease Control project
								titled Investigation of Reduced
								Order Fire Modeling for Improved
								Safety and Response in
								Underground Coal Mines. Dr.
								Lattimer is listed as the PI of the
								Jensen Hughes subcontract. This
								conflict will be mitigated by Dr.
								Brian Lattimer recusing himself
								from any involvement in the
								research project on the Virginia
								Tech scope of work and will only be
								engaged in research on the Jensen
								Hughes subcontract.

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Employee Owned Business Involved	Jensen Hughes	Brian	Timothy Long	n/a	Chemistry	March 28, 2019 through	92,000 Professor Brian Lattimer is an
in Research		Lattimer				December 31, 2019	adjunct professor in Mechanical
							Engineering. He teaches a semester
							long course for the university in the
							spring and fall of each academic
							year. He is not involved in research
							at the university in his role as an
							adjunct. Dr. Lattimer is employed
							by Jensen Hughes and informed the
							COI Office in March of 2019 that he
							has an equity interest in Jensen
							Hughes since 2016. Jensen Hughes
							is listed as a subcontractor on a US
							Department of Defense project titled
							Designing Next Generation Polymer
							Based Surfactants for Fire
							Suppression. Dr. Lattimer is listed
							as the PI of the Jensen Hughes
							subcontract. Dr. Timothy Long,
							professor in Chemistry, is the lead
							principal investigator on this project
							and in this role will serve as the
							independent research, financial and
							research oversight. This conflict will
							be mitigated by Dr. Brian Lattimer
							recusing himself from any
							involvement in the research project
							on the Virginia Tech scope of work.
Employee Owned Business Involved	Zebra Analytix, LLC	Masoud	Masoud Agah	GQ Lu	Electrical and	April 12, 2019 through	75,000 Dr. Masoud Agah, professor in
in Research		Agah			Computer	December 31, 2019	electrical and computer
					Engineering		engineering, has an equity
							interest in Zebra Analytix, Inc.
							and serves as the Chief
							Technology Officer. Zebra
					1		Analytix, Inc. has received an
							NIH SBIR Phase I and plans to
							contract with the university to
							design and fabricate of purge and
					1		trap microchips. A management
					1		plan was developed and Dr. Lu
							will serve as the independent
							oversight.
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Employee Owned Business Involved in Research	Mayfair Group, LLC	Edward Fox	Edward Fox	Narendran Ramakrishnan		March 18, 2019 through December 31, 2019		Dr. Edward Fox, professor in computer science, has an equity interest in Mayfair Group, LLC in Norfolk, VA. Dr. Ed Fox has submitted a proposal to the NSF i-Corp program to conduct a customer discovery assessment for summarization techniques. While Mayfair Group, LLC is not receiving any funds from the project the proposal is based upon technologies and processes in which Dr. Fox and Mayfair Group, LLC have a financial interest. Additionally, the CEO and CFO are unpaid collaborators on this grant. Dr. Ramakrishnan will serve as independent oversight of this
Employee Owned Business Involved in Research	Mayfair Group, LLC	Edward Fox	Edward Fox	Narendran Ramakrishnan		April 26, 2019- December 31, 2019	25,000	project. A management plan was developed. Dr. Edward Fox, professor in computer science, has an equity interest in Mayfair Group, LLC in Norfolk, VA. Dr. Ed Fox has submitted a proposal to receive funding from Dr. Provo's Economic Development Administration grant titled CatalyzeVT to further develop and commercialize a software solution for the summarization of deposition transcripts. Independent financial and research oversight will be appointed to oversee this effort.