

Research and Innovation at Virginia Tech

August 2023







Planning and Proposal Development

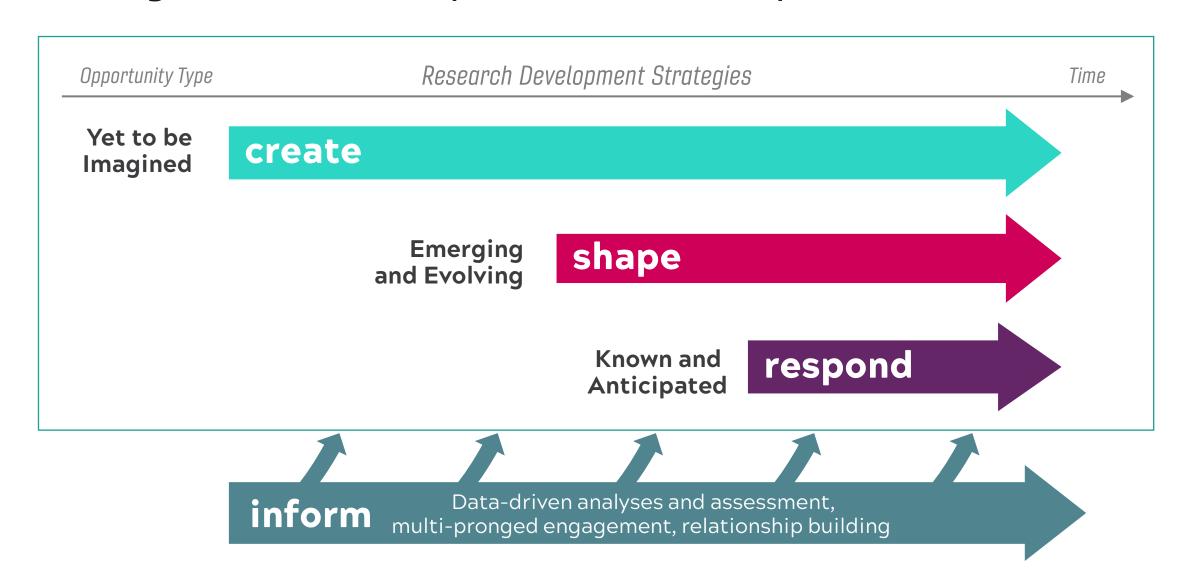
- Research Development Resources
 Randy Heflin, Senior Associate Vice President,
 Research and Innovation
- Sponsored Programs: Pre-Award and Summit
- Sponsored Programs: Contracts



Research development in the Office of Research and Innovation

- The Office of Research and Innovation aims to ensure full-spectrum research development for the entire university research enterprise
- The objective is to make each phase of developing the research portfolio more efficient and effective - from the earliest stages of relationships with potential sponsors to awards being made

Advancing research development across multiple timelines





- Funding Institutional customizable and searchable database of funding organizations and solicitations
- Proposal development support in many colleges and departments
- VT-FAST
- Example successful proposals colleagues and ADRs
- Proposal Development Institute
- NSF CAREER Award workshop
- Research Development Seminar Series (video archive)
- Limited Submissions
- Red Team review
- Cost-sharing and institutional commitment

Virginia Tech Institutes

Investment

- Fralin Life Sciences Institute (FLSI)
- Institute for Creativity, Arts, and Design (ICAT)
- Institute for Critical Technology and Applied Science (ICTAS)
- Institute for Society, Culture, and Environment (ISCE)

Thematic

- Fralin Biomedical Research Institute (FBRI)
- National Security Institute (NSI)
- Virginia Tech Transportation Institute (VTTI)

Sponsor and Corporate Engagement

Office of Strategic Research Alliances

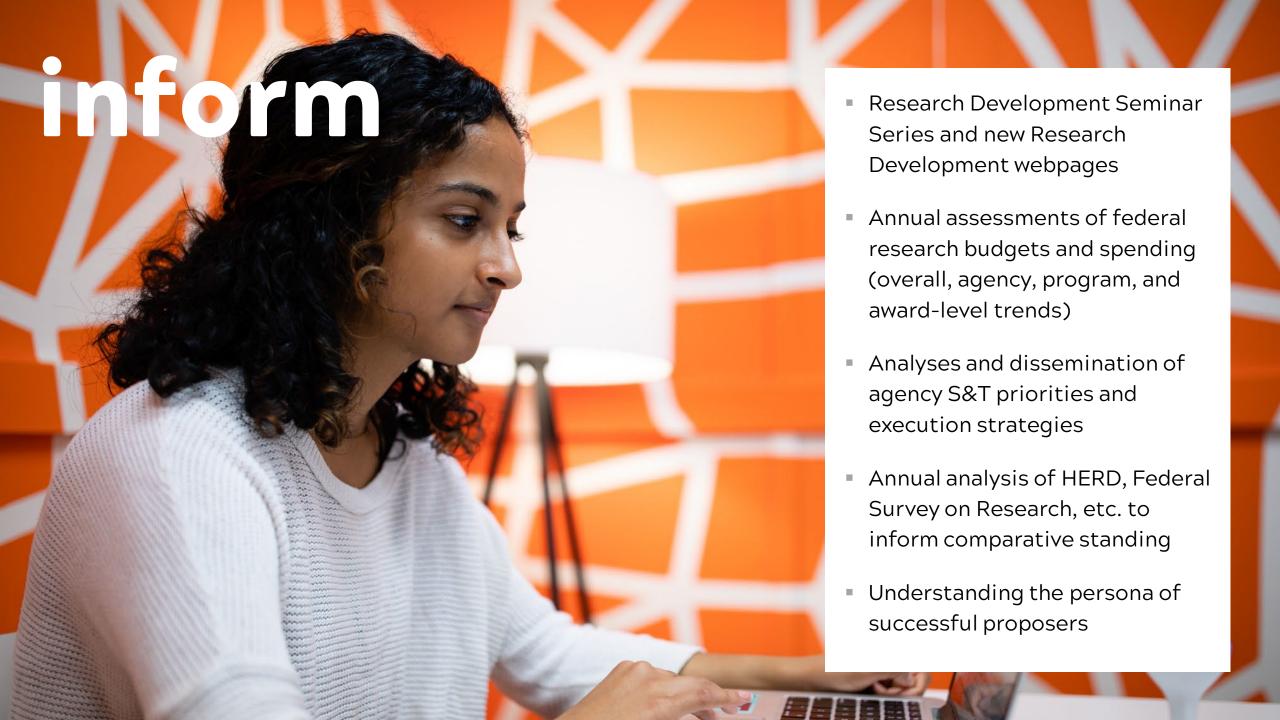
Contacts and engagement with federal agencies, foundations, companies, and other academic institutions

Steve McKnight and Jon Porter

LINK + LICENSE + LAUNCH

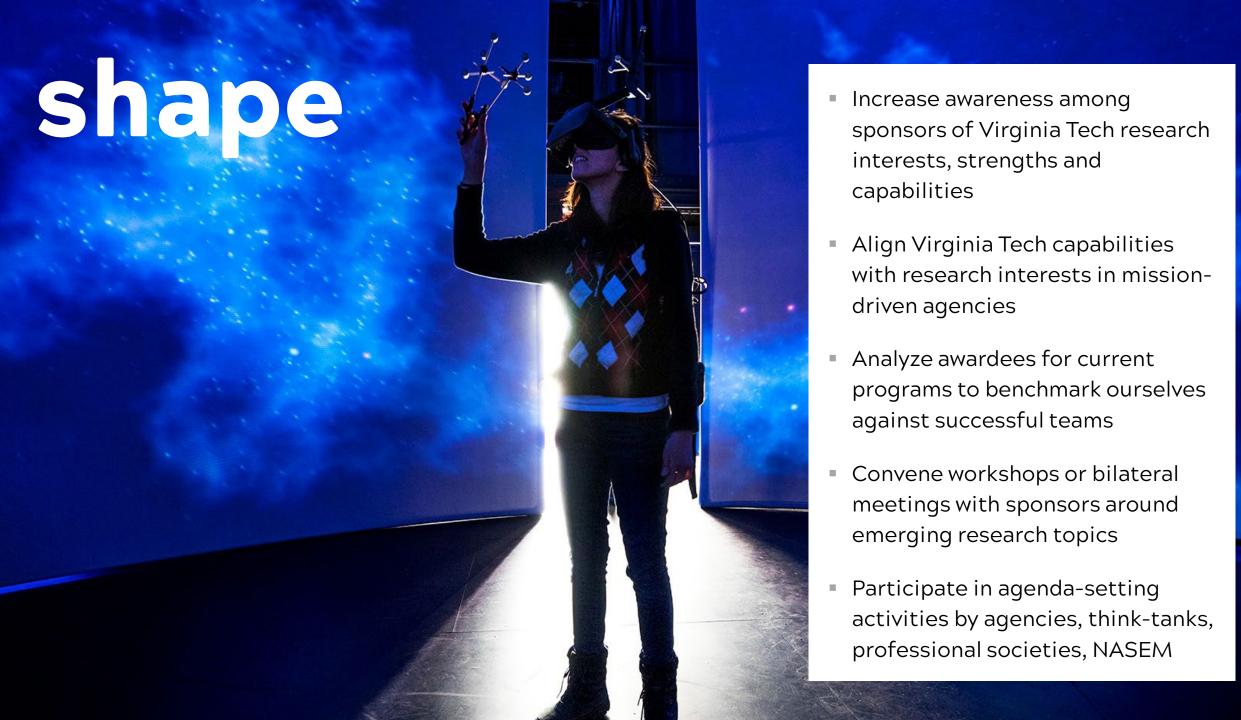
Corporate Partnerships, Intellectual Property, Start-Up Company Formation

Brandy Salmon and Brad Fravel





- Promote awareness of Virginia Tech research interests, priorities and talent
- Participate in national-level thematic workshops
- Convene broader community on priority research areas
- Organize faculty visits to research agencies and program managers
- Host agency visits to Virginia Tech





- Brainstorm around big ideas that align with our strengths and capabilities
- Drive interest in new and emerging research areas to stimulate research investment
- Actively participate in the establishment of nationallevel research agendas
- Advocate development of new research programs at sponsors and agencies
- Build collaborative alliances to generate interest and momentum for new and emerging research

Principal Investigator Boot Camp

Jill O'Quin, Ed.D.

Office of Sponsored Programs

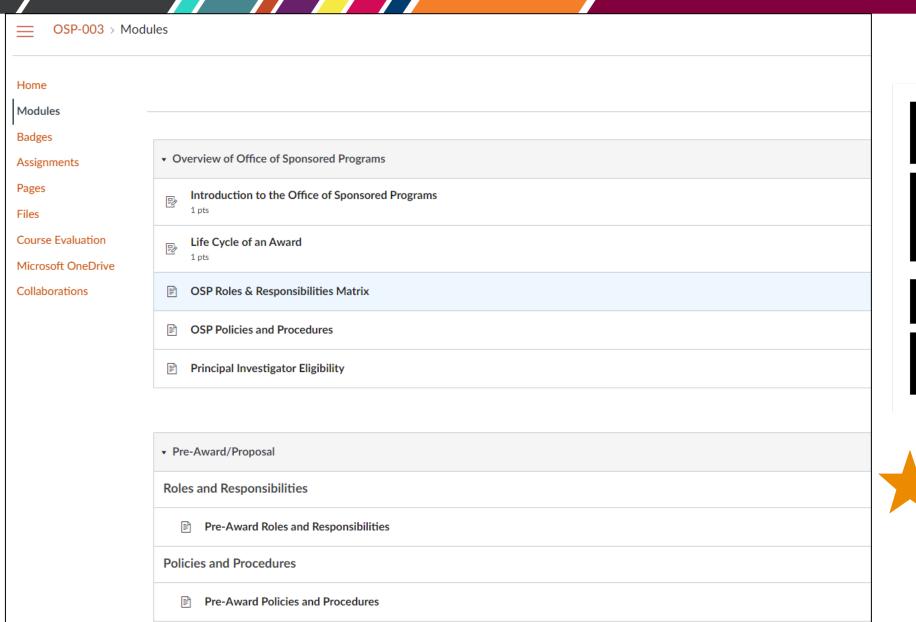
Scholarly Integrity and Research Compliance

oquin@vt.edu





https://profdev-lms.tlos.vt.edu/enroll/C7MARP





Set a bookmark in your browser for easy access.

https://profdev-lms.tlos.vt.edu/enroll/C7MARP

How Can the OSP Pre-Award Team Help You?

At the Proposal Stage

- Reviews the Request for Proposal (RFP)
- Creates the budget in accordance with PI specifications
- Assists PI in completing sponsor forms
- Ensures appropriate reviews have taken place -COI, Export Control, Contractual
- Prepares cover letter/Reps-Certs/Sub forms
- Obtains all required signatures on proposal documents
- Reviews proposal for compliance with RFP
- Submits proposal to sponsor OR provides approval for PI to submit

After Submission

- Works with faculty to correct or resolve any issues in the proposal package
- Submits updates or revisions to the original proposal
- Coordinates answers to sponsor regarding proposals
- Files all after-submission communication
- Transmits award documents to Contracts team
- Answers questions from Contracts/Post-award

When should you initiate your proposal in Summit? As soon as possible.

 As soon as you find an opportunity you want to apply to, initiate the proposal in Summit.

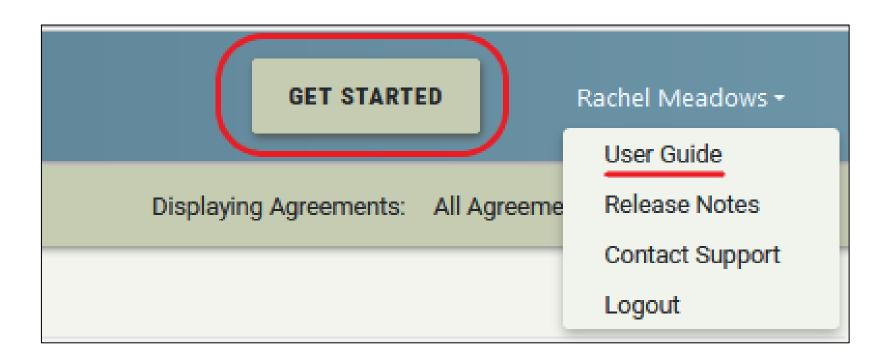
https://summit.cloud.vt.edu/

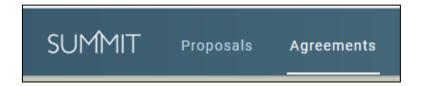
- This does the following:
 - Places your proposal on the Pre-Award calendar
 - Puts your proposal in your Pre-Award Associate's queue
 - Allows us to do a RFP review
 - Allows us to get Contracts get involved if needed
 - Lets us review to see if it is a Limited Submission opportunity
- Please contact the following with any questions:
 - Shannell Ball, Associate Director of Pre-Award, <u>shannell@vt.edu</u> or 540-231-5578
 - Lauren Magruder, Director of Pre-Award,
 Lmagrude@vt.edu or 540-231-8054

Office of
Sponsored
Programs Contracts and
Agreements

- The Contracts Team reviews and executes many types of research-related contracts and agreements.
 Contracts and agreements are initiated in the following ways:
 - Emailing <u>ospcontracts@vt.edu</u> or <u>ospawards@vt.edu</u> with sponsor acceptance of award for proposed funded agreements.
 - Summit Agreements for most other agreement types.
 - Refer to the <u>Contracts and Agreements page</u> for additional guidance.

Office of Sponsored Programs - Summit Agreements







Research Integrity, Ethics, and Compliance

Lisa M Lee

Associate Vice President for Research and Innovation Director, Scholarly Integrity and Research Compliance

August 18, 2023



Scholarly Integrity and Research Compliance

MISSION

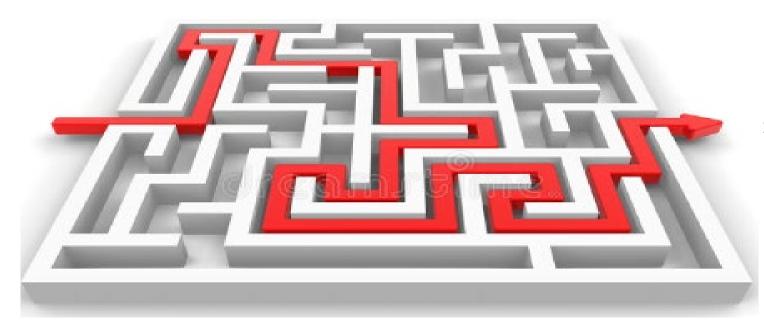
The division of Scholarly Integrity and Research Compliance facilitates scholarly excellence by fostering ethical decision-making and ensuring research regulatory compliance



Requirements for conducting research

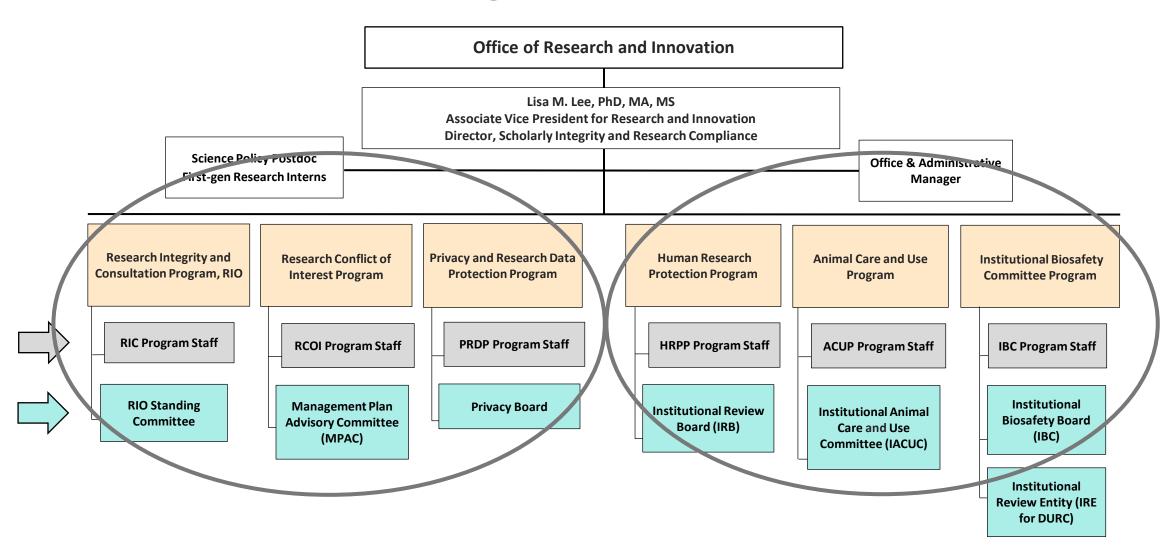
Regulations, state laws, federal laws, Virginia Tech policies

- ✓ Research funded
- ✓ Protocol written
- ✓ Staff hired
- √ Supplies ordered



Start research

Research compliance programs

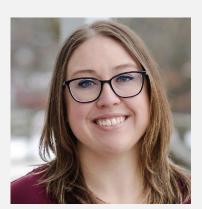


Research Integrity and Consultation Program

- Professional development trainings addressing research ethics and integrity (Investigator Series, RISE Lecture Series)
- Certification for NSF and NIH RCR training requirement
- Research Integrity Officer



Kory Trott, JD, MPHDirector, Research Integrity and Consultation Program



Samantha Brodie, MA

Administrative

Specialist

Research Conflict of Interest Program

- Management Plan Advisory Committee (MPAC)
- Assessment and management of research conflicts of interest to ensure objectivity in research
- Disclosure system for conflicts of interest and commitment
- SBIR/STTR guidance for entrepreneurial researchers



Cristen Jandreau, PhD

Director, Research
Conflict of Interest
Program and University
Official for Financial COI
(Sponsored Projects)



Quinn Steen, JD, MBA
Senior Research Conflict
of Interest Coordinator



Tennielle Hawkins, MPA

Research Conflict of
Interest Coordinator



Leslie Thornton-O'Brien, MAAdministrative Specialist

Privacy and Research Data Protection Program

- Assess and manage privacy protections based on data sensitivity
- Ensure researchers have access to resources that keep data secure and compliant with university, state, and federal regulations
- Balance open-data requirements and data protection
- Oversight of privacy reviews for IRB
- Support researchers
 - 1:1 consultations
 - Training, class presentations



Julie Cook

Director, Privacy and

Research Data Protection

Program



Samantha Brodie, MA Administrative Specialist

SCHOLARLY INTEGRITY AND RESEARCH COMPLIANCE

Human Research Protection Program

- Institutional Review Board (IRB)
- Ensure ethical and compliant research involving human participants
- Support researchers and IRB
 - Weekly office hours
 - 1:1 consultations
 - Training, class presentations



Barbara DeCausey,
MPH, MBA
Director, Human
Research Protection
Program



Sarah Henderson, MS QA/QI Coordinator



Samantha Bowling,
MA
Protocol Coordinator



Lacey Doyle,
MAEd
Protocol
Coordinator



Andrea Nash, MSProtocol Coordinator



Eric Newton, MSEdProtocol Coordinator



Brandi Evans, MHP
Protocol Coordinator



Brynn Watson

Administrative

Specialist

Animal Care and Use Program

- Institutional Animal Care and Use Committee (IACUC)
- Ensure ethical and compliant use of vertebrate animal species in teaching and research
- Support researchers and IACUC
 - Weekly office hours
 - 1:1 consultations
 - Training, class presentations



Stephanie Trout, MS

Director, Animal Care and
Use Program and IACUC

Administrator



Becky Burns, MSProtocol Coordinator



Kim SkroupaProtocol Coordinator



Vanessa Oetjens
Senior Administrative
Specialist

Institutional Biosafety Committee Program

- Institutional Biosafety Committee (IBC) and Institutional Review Entity (IRE)
- Ensure ethical and compliant research involving biohazardous agents
- Support researchers and IBC and IRE
 - Office hours
 - 1:1 consultations
 - Laboratory training
 - Class presentations



Regina Allen, PhD
Institutional Biosafety Committee
Program Director and Institutional
Biosafety Committee Administrator



Ling Chen, PhDSenior Protocol Coordinator

Office of Export and Secure Research Compliance

- Ensures university-wide compliance with export controls, sanctions, and research security laws and regulations
- Research security programs cover:
 - Cybersecurity
 - Foreign Travel Security
 - Research Security Training
 - Export Control Training
 - Institutional Certification
- New requirements and procedures for mitigating foreign influence



John TalericoDirector, Export and Secure Research
Compliance

SCHOLARLY INTEGRITY AND RESEARCH COMPLIANCE

Administrative and Office Management





Ann Thornhill

Office and
Administrative

Manager



Questions and Discussion











Mark Mondry

Director, LAUNCH

Mark's extensive engineering, legal, and executive business experience shares a common theme of creating, developing, and commercializing new technologies. As a patent attorney in Silicon Valley and Washington DC, he helped create and grow extensive global patent portfolios, managed dozens of patent litigations, and drafted and negotiated hundreds of licensing and transactional contracts spanning the entire innovation spectrum. As an executive in the medical devices industry, he held leadership positions in operations, business development, and new product development in multi-national Fortune 100 companies and founded or helped build several startups and spinouts, including growing a young medical device startup to a successful IPO.



MEET YOUR INSTRUCTORS

Grant Brewer

Executive Director, LICENSE

With two decades of experience in commercialization of highly technical business opportunities, Grant provides the practical experience one gains through doing things the wrong way and learning things the hard way.

Unfortunately for Virginia Tech, Grant has been learning this way for almost 10 years in his current role.

Grant's professional experiences range from bench-top research assessment to directing FDA approved pharmaceutical manufacturing. He has been involved in multiple start-up companies, many of which achieved success through strong exits and sales revenues.

A ONE-STOP SHOP FOR PARTNERS

LINK + LICENSE + LAUNCH

Advancing corporate partnerships

Patenting and licensing technologies

Propelling Startup creation from research





Want to increase the societal impact of your research?

We are here to help.

Technology commercialization's Contribution to our Land Grant Mission

Pursuing commercialization ...

- is a way of increasing impact from your research
- + potential financial gain for VT's inventors (refer to university policy 13000)
- + attracts diverse and talented faculty, graduate students and post-docs (fly-wheel effect)
- + compliance with federal Bayh-Dole Act

LICENSE

- Focus on translating technologies to market.
- + Coordinates with VTIP
- Invention disclosure process
- Patent application process
- Licensing process
- + Distributing licensing revenues
- + LICENSE Tech Transfer Bootcamp professional development workshop

LAUNCH

- Mentoring for exploratory innovation and spin-out creation
- + Proof-of-Concept fund program
- + NSF I-Corps courses and mentoring
- Presidential Postdoc Innovation Fellowship program
- LAUNCH Startup Labs professional development workshop (7 sessions)



Meet policy 13000

- + Who owns my invention?
- + What happens when we disclose an invention?
- + How is success shared?



Virginia Polytechnic Institute and State University

Policy on Intellectual Property

No. 13000

Policy Effective Date: 12/5/1986

Last Revision Date: 3/22/2021

Policy Owner: Dan Sui

Policy Author: (Contact Person) Laurel Miner

Affected Parties:

Undergraduate Graduate Faculty Staff Other

- 1.0 Purpose
- 2.0 Policy
- 3.0 Procedures
 4.0 Definitions
- 5.0 References
- 6.0 Approval and Revisions

1.0 Purpose

Publicly (state) supported universities have the multiple missions of teaching, research, support of the public interest and fostering of economic development of the area/state in which they are located.

Scholarly activities in a University setting create Intellectual Properties (IPs). IPs include research papers, books, software programs, new inventions, journal articles, etc.

With regard to research data, results, and related materials for projects conducted at the university, under the auspices of the university, or with university resources, please refer to Policy 13015, "Ownership and Control of Research Results."

The University's mission includes dissemination of IPs in the most efficient and effective manner possible. The identification and optimization of opportunities for the industrial/commercial utilization of some IPs is also part of this mission, as is the protection of the ownership rights of both the individuals and the University.

While many IPs are best disseminated by publication and placing in the public domain, there are a significant number that are most effectively handled by protection under the IP laws (i.e., patenting and copyright) and licensing (or other transfer) to private sector entities, with attendant financial considerations.

This Policy is designed to establish the rationale and the mechanisms to:

- 1. Establish ownership criteria and resolve ownership questions if such arise.
- 2. Define the responsibilities, rights and privileges of those involved.
- 3. Develop basic guidelines for the administration of the IP Policy.

This Policy applies to all employees, students, and all other persons or entities using University resources pursuant to this policy.

2.0 Policy

2.1 Organization

The Intellectual Properties Committee (IPC) membership shall be as stated in the By-Laws of University Council.





The invention disclosure process

- + Not "just housekeeping" or mandatory paperwork (although it is required by law);
- Initiates the process for ultimately protecting your intellectual property.
- Also available through online disclosure portal



	VIRGINIA TECH. _{IN}	CONFI	DENTIA	
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TITLE OF	IP DISCLOSURE:			
BRIEF DE	SCRIPTION OF IP:			
				P to this form, including a detailed
statements i	ndicating other possible conce	eptual uses, in addition to th	he ones that you have alr	oposed uses. Please feel free to add short eady demonstrated. Review of the
disclosure a	nd protection of the intellectual RELEVAN	al property will be delayed T SPONSORSHIP A		
YES NO				
	NAS THIS IP DEVELOPED WITH THE USE OF ANY EXTERNALLY SPONSORED (Private or Public) GRANT/ CONTRACT FUNDS? IF YES, PLEASE IDENTIFY ALL AGREEMENTS BELOW AND ATTACH A COPY OF THE AWARD LETTER OR CONTRACT COVER SHEET THAT INDICATES THE GRANT OR CONTRACT WIMBER.			
	AGENCY OR SPONSOR	GRANT/CONTRACT	VT FUND NO.	PRINCIPAL INVESTIGATOR
	2. WAS THIS IP DEVELOPE IDENTIFY SOURCE:	D USING ANY VT INTERN	AL FUNDS?IF YES,	
	MEMORANDUM OF UND	ERSTANDING, CONSORTI	UM AGREEMENT, OR CO	RANSFER AGREEMENT (MTA), ONSULTING AGREEMENT) WHICH OUTSIDE VIRGINIA TECH?IF YES,
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		(See Defin	nitions)	
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PLEASE C	TIONS, EXPORT ADMINISTRA	ATION REGULATIONS, NUC	LEAR REGULATORY C	ommission).
PLEASE O REGULAT IF YOUR CONTROL	TIONS, EXPORT ADMINISTRA PROJECT IS NOT CONSIDERE	D FUNDAMENTAL RESEA	RCH AND REQUIRED TI	IE ESTABLISHMENT OF A TECHNOLOGY E RESEARCH COMPLIANCE (OESRC),



Obligations to disclose in faculty handbook

- + The university asserts its right to the results of research funded wholly, or in part, with university resources.
- + "Creation of intellectual property (IP) must be disclosed to the university by submitting an IP disclosure form."

LAUNCH resources:

- Proof-of-Concept fund (\$50k grants
- + VIPC commercialization funding
- + NSF I-Corps courses and mentoring
- Presidential Postdoc Innovation Fellowship program
- + LAUNCH Startup Labs



Find out more

Visit our website: vt.edu/link

LINK + LICENSE + LAUNCH

A team dedicated to supporting all aspects of corporate partnerships from research collaborations, to corporate giving, to technology commercialization and start-ups. We are a one stop shop for industry from discovery to market.

QUICK LINKS

RESOURCES FOR COMPANIES

EVENTS + OFFICE HOURS

RESOURCES FOR INVENTORS

INVENTION DISCLOSURE FORM

RESOURCES FOR ALUMNI

MEET OUR TEAM

LICENSE

Grant Brewer

Executive Director, LICENSE Center for Technology Commercialization

grantb76@vt.edu

540-231-6648

LAUNCH

Mark Mondry

Director, LAUNCH Center for new Ventures

mmondry@vt.edu

540-231-4131





Using media (owned and earned) to elevate your work

Michael Stowe
Communications and Marketing

Michael Stowe

Communications and Marketing



Working together

Communications and Marketing

- Research
- Colleges

- Institutes
- Units



Better connections

Editorial Integration

- Content Producers
 Virginia Tech News
- Social Media
- Media Relations



Elevating research







Police vehicle stop research

CASE STUDY



Communications Timeline

March 16: Researcher reaches out to communications

April 11: Media call with Stanford communications team

April 12: Amplification plan created

May 22: Embargo date set for May 29 (Memorial Day)

May 24: Story loaded to EurekAlert under embargo

May 25: Media outreach under embargo

May 29: Embargo lifts, media coverage begins



Content Amplification Plan

Updated: 5/23/23

Contact: Margaret Ashburn, mkashburn@vt.edu

Key Partners:

- Margaret Ashburn, Assistant Director of Media Relations
- Shannon Andrea, Director of Media Relations & DC Area Communications
- Lindsey Haugh, Senior Director, Marketing & Communications, Office of Research & Innovation
- Travis Williams, Writer, Office of Research & Innovation
- Suzanne Miller, Assistant Director of Communications, College of Engineering
- Eugenia Rho, Researcher, 650-218-5841

Summary

Virginia Tech researcher sheds light on when and how law enforcement traffic stops escalate, as well as their psychological impact on Black men.



'Owned' Media



First impressions matter, even during vehicle stops.

New research by @VT_CS assistant professor Eugenia Rho reveals how the initial words spoken by law enforcement officers to Black drivers can indicate the outcome of the stop.

Read more ▶ https://news.vt.edu/articles/2023/05/cm-trafficstopstudy.html





NEWS RELEASE 29-MAY-2023

Vehicle stop study illuminates importance of officer's first words

Eugenia Rho is the lead author of a recent study that highlights key components of traffic stops that end in escalation

Peer-Reviewed Publication
VIRGINIA TECH



Earned Media





For Black drivers, a police officer's first 45 words are a portent of what's to come

npr.org

