

College and University Innovation Hubs

Fostering Economic Development in the Southern Region

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The Catalyst: Bayh-Dole Act

Empowering Institutions

The landmark 1980 legislation revolutionized federal research by transferring patent ownership to universities.

- Universities can now patent and license inventions
- Incentivizes private sector investment in research
- Reinvests royalties back into academic discovery
- Heralded as a vital pillar of U.S. competitiveness



Understanding Tech Transfer



Discovery

Identifying breakthroughs in university laboratories with commercial potential.



Protection

Managing the intellectual property lifecycle through patenting and legal frameworks.



Deployment

Licensing technology to industry partners or fostering the creation of new startups.

Global Impact: Success Stories



The Big Three

Google (Stanford)
Gatorade (Florida)
Genentech (UCSF)



Robotics & AI

Boston Dynamics (MIT)
iRobot (MIT)
Photobit (NASA/Caltech)



Industry Leaders

Cree (NC State)
Nicotine Patch (UCLA)
AIDS Therapy (Emory)

Our Nation's Innovation Engine

19K+

Startups Created Since 1996

Economic Contribution

- **\$1.9 Trillion:** Contributed to U.S. gross industrial output
- **6.5 Million:** Jobs supported nationally
- **69%:** Of university licenses go to small businesses
- **2+ Products:** Commercialized every day

Virginia Leading the Way

A Model for Statewide Innovation Ecosystems



Virginia's Strategic Support

Virginia Innovation Partnership Corporation (VIPC)

Commercialization grants and venture seed funding for high-growth startups.



Creating regional ecosystems and physical hubs like the Bio+Tech Park.



Regional collaboration grants that align education with economic outcomes.

Virginia Economic Development Partnership (VEDP)

State-level business and industry outreach to scale university spin-outs.

Ecosystem Policy Architecture

Functional Level	Virginia Entity	Primary Responsibility
State Strategy	VEDP	Business recruitment and talent pipelines.
Funding & IP	VIPC / CCF	Commercialization grants and startup seed capital.
Infrastructure	Activation Capital	Small business incubators and bio-innovation hubs.
Regional Scale	GO Virginia	Multi-jurisdictional economic development grants.

Policy Leadership: H.B. 363

Reducing Barriers to Innovation and Streamlining Commercialization Funding for Virginia's Startup Ecosystem

- **Matching Relief:** Would remove match requirements for grants < \$100k
- **Efficiency:** Impacts 90% of CCF applications
- **Speed:** Accelerates the transition from "Lab to Market" immediately
- **Support:** Specifically targets high-impact regional startups



Case Study: Virginia Commonwealth University Showcase

University IP in Action

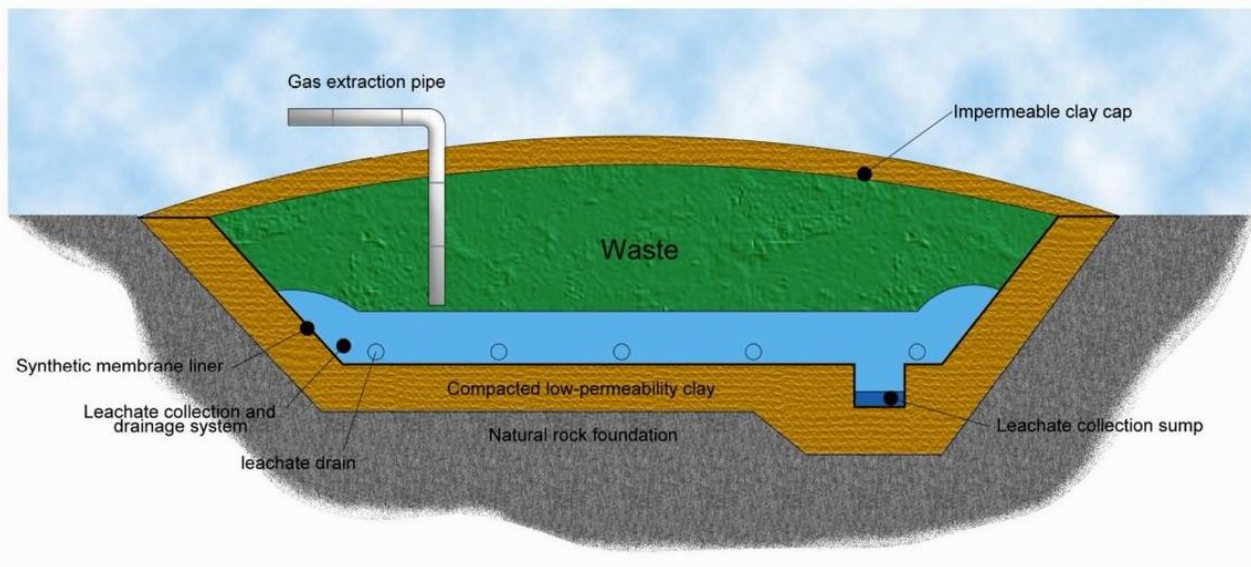
Annual event connecting 20+ university-affiliated startups with state policymakers and investors.

- **Start-Ups:** Represent 70% Of VCU's licensed IP portfolio
- **Direct Link:** Faculty co-founders meet venture capital
- **Impact:** Positioning the university as a statewide driver of innovation
- **Reach:** The General Assembly and leadership in the Governor's office see firsthand how state investments in university research, bring positive economic benefits.



Case Study: Catalyst Challenge

Leachates from landfills



Environmental Liabilities to Assets

Statewide Innovation Challenge for Landfill Waste & Leachate Processing

- **\$500k:** Total initial seed pool for validation
- **9 Months:** Rapid validation pipeline
- **Recovery:** Extracting \$100M+ in rare earth metals
- **Partnership:** Collaboration with VCU, VA DEQ, and VIPC

Questions?

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