



Ohio Third Frontier  
Commission Meeting

June 24, 2020

**Ohio** | Development  
Services Agency

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✓ **Ohio**

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Call to Order and Approval of the  
11/21/2019 Meeting Minutes


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## TVSF Round 21 Evaluation


Jim Sonnett PhD, Susan Stanton PhD  
June 24, 2020

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## Phase 1 Recommended Funding



Proposal	Lead Applicant	Project Title / Product Focus	Recommended Funding
20-0252	Cincinnati Children's Hospital Medical Center	Cincinnati Children's Innovation Ventures Acceleration Program	\$500,000

Comments:

- Strong Selection Committee and Deal Flow.
- Very good track record.
- Impressive project management approach and team.



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## Phase 1 Recommended Funding



Proposal	Lead Applicant	Project Title / Product Focus	Recommended Funding
20-0255	University Hospitals Health Systems, Inc	University Hospitals Technology Venture Fund III	\$500,000

## Comments:

- Strong selection committee and process.
- Very good deal flow with efforts to increase further.
- Very strong network of third party suppliers.



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## Phase 1 Recommended Funding

BON SECOURS MERCY HEALTH

Proposal	Lead Applicant	Project Title / Product Focus	Recommended Funding
20-0257	Bon Secours Mercy Health Foundation	Bon Secours Mercy Health Technology Validation Fund	\$200,000

## Comments:

- First time applicant.
- Fund leaders have impressive prior track records.
- Good network of third-party suppliers and ESP interaction.



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## Phase 1 Recommended Funding


**WRIGHT STATE APPLIED RESEARCH CORPORATION**

Proposal	Lead Applicant	Project Title / Product Focus	Recommended Funding
20-0258	Wright State Applied Research Corporation	The MedTech Launch Fund	\$200,000

## Comments:

- First time applicant.
- Innovative multi-organization opportunity sourcing from Air Force Research Laboratory, University of Dayton and Wright State University.
- Close integration with local ESP.



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## Phase 1 Recommended Funding


**U C CINCINNATI**

Proposal	Lead Applicant	Project Title / Product Focus	Recommended Funding
20-0259	University of Cincinnati	University of Cincinnati TVSF Phase 1 20193	\$500,000

## Comments:

- Strong selection committee.
- Process that uses Entrepreneurs in Residence as interim CEOs provides initial opportunity validation.
- Aggressive goal of forming 8 new companies.



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## Phase 1 Recommended Funding



Proposal	Lead Applicant	Project Title / Product Focus	Recommended Funding
20-0271	Cleveland Clinic Foundation	Cleveland Clinic Technology Validation and Start-up Fund IV (TVSF-CC IV)	\$500,000

## Comments:

- Strong, seasoned selection committee.
- Impressive track record and aggressive, yet realistic, goals.
- Project selection and management processes are integrated and thorough.



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## Phase 1 Recommended Funding



Proposal	Lead Applicant	Project Title / Product Focus	Recommended Funding
20-0278	Case Western Reserve	Phase 1-Technology Validation Start-Up Fund-Pool of Funds	\$500,000

## Comments:

- Strong Selection Committee.
- Impressive track record.
- Good deal flow and project management strategies.



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## Phase 2 Recommended Funding

Proposal	Lead Applicant	Project Title / Product Focus	Recommended Funding	Licensing Institution
20-0261	Tasseogen, Inc.*	Expert-Powered Clinical Genomics Artificial Intelligence Platform	\$150,000	Nationwide Children's Hospital

\*Funding recommendation is contingent on IP filing

Proposal	Lead Applicant	Project Title / Product Focus	Recommended Funding	Licensing Institution
20-0268	RightFlow Medical, LLC	FORGE / Implant to treat non- medication responsive glaucoma patients	\$150,000	University Hospitals Health System



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## Phase 2 Recommended Funding

Proposal	Lead Applicant	Project Title / Product Focus	Recommended Funding	Licensing Institution
20-269	Cashel Neural, LLC*	Target Identification for Novel Small Molecules that promote Remyelination in Multiple Sclerosis	\$144,000	Cleveland Clinic Foundation

\*Funding recommendation is contingent on IP filing

Proposal	Lead Applicant	Project Title / Product Focus	Recommended Funding	Licensing Institution
20-0270	Mitria Medical, LLC	Subvalvular Spacer System for Mitral Valve Repair	\$150,000	Cleveland Clinic Foundation



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## Phase 2 Recommended Funding

Proposal	Lead Applicant	Project Title / Product Focus	Recommended Funding	Licensing Institution
20-275	Haima Therapeutics, LLC	Safety Evaluation of SynthoPlate (Intravenous Synthetic Platelet) Technology for Hemorrhage Control in Canines	\$150,000	Case Western Reserve University



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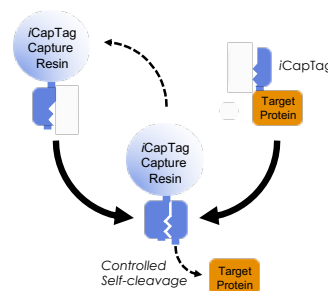
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## Snapshot of Phase 2 Funding Recommendation – Protein Capture Science LLC



Proposal	Lead Applicant	Project Title / Product Focus	Recommended Funding	Licensing Institution
20-0254	Protein Capture Science LLC	The Next Generation Protein Purification Platform	\$150,000	The Ohio State University

- This patented material technology will dramatically reduce the key bottleneck in manufacturing biologic drugs, a multibillion dollar, rapidly growing market.
- The strong team has identified a three phase sales strategy leading to year 5 projected revenue of \$20M with high profitability.
  - The team responded very positively to Round 20 Evaluator feedback; Round 19 applicant.
  - TVSF funding will be used to produce market development samples.
- There is significant interest from prospective customers and growing interest from investors and potential business partners.



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## Snapshot of Phase 2 Funding Recommendation – PolyLux, LLC



Proposal	Lead Applicant	Project Title / Product Focus	Recommended Funding	Licensing Institution
20-263	PolyLux, LLC.	Aura Peel-On-Demand Light Switchable Adhesives	\$150,000	University of Akron

- Company founded in 2016. Good mix of technical and industry specific business skills.
  - Prior applicant in Rounds 11 and 17.
- Have developed a 'reversible' medical adhesive that is effective AND reduces adhesive related skin injuries – in a multibillion dollar market.
- Lab proof of concept established, TVSF funding enables a field scale demonstration.
- Well positioned to raise the needed \$2.4M in 2020 / 21.
- Projecting year 5 sales of \$68M with high profitability.



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## Technology Validation and Start-Up Fund (TVSF)


### Round 21 Recommendations

Development  
Services AgencyThird Frontier  
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## TVSF Round 22 Evaluation


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## Phase 1 Recommended Funding



Proposal	Lead Applicant	Project Title / Product Focus	Recommended Funding
20-0795	Ohio State University	Accelerator Awards	\$500,000

Comments:

- Strong Selection Committee with diverse expertise and experience.
- Aggressive, and well justified, outcome goals.
- Impressive project management model with Industry Experts and OSU team.



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## Phase 2 Recommended Funding

Proposal	Lead Applicant	Project Title / Product Focus	Recommended Funding	Licensing Institution
20-0787	Anemed, Inc.	Oral Appliance for Obstructive Sleep Apnea and Snoring	\$148,630	Case Western Reserve University

Proposal	Lead Applicant	Project Title / Product Focus	Recommended Funding	Licensing Institution
20-791	DasiSimulations LLC	Personalizing Heart Valve Surgery Using Advanced Predictive Simulations	\$150,000	Ohio State University



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## Phase 2 Recommended Funding

Proposal	Lead Applicant	Project Title / Product Focus	Recommended Funding	Licensing Institution
20-0792	S4 Mobile Laboratories, LLC	Finding Clandestine Human Burials using in-situ Subsurface Spectroscopy	\$100,000	University of Akron

Proposal	Lead Applicant	Project Title / Product Focus	Recommended Funding	Licensing Institution
20-0798	OuMuam	Narrow Pipeline Inspection Robotics System	\$100,000	Air Force Research Laboratory



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## Phase 2 Recommended Funding

Proposal	Lead Applicant	Project Title / Product Focus	Recommended Funding	Licensing Institution
20-0800	Vitrano, Inc.	Bi-layered Capsule for Sustainable Delivery	\$150,000	Ohio State University



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## Snapshot of Phase 2 Funding Recommendation – Hemaptics



University Hospitals

The Science of Health. The Art of Compassion.

Proposal	Lead Applicant	Project Title / Product Focus	Recommended Funding	Licensing Institution
20-0789	Hemaptics, LLC	HemaLogiX™	\$150,000	University Hospitals Health System

- HemaLogiX™ integrates clinical data and evidence-based care guidelines at the point of care to inform the clinical decision process, eliminating unnecessary blood transfusions.
- This patent pending and trade secret approach has the potential to reduce blood use by over 30% at a time when blood donations are being seriously reduced by COVID-19.
- The strong team has identified a market opportunity in excess of \$350M selling to mid and large size hospitals.
  - The team responded very positively to Round 21 Evaluator feedback.
- TVSF funding will be used to produce and demonstrate a real time transfusion advisory platform.
- There is significant interest from prospective customers and growing interest from investors.



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## Snapshot of Phase 2 Funding Recommendation – Three Firefighters



Proposal	Lead Applicant	Project Title / Product Focus	Recommended Funding	Licensing Institution
20-0790	Three Firefighters LLC	First Responder Personnel Accountability	\$100,000	Ohio State University

- Three Firefighters has developed hardware (Door Boss) that limits fire growth and a system that tracks first responders entering and leaving a burning building.
- Founder is a career firefighter and first-time entrepreneur who has well developed connections and discussions with prospective customers, supply chain participants and investors.
  - Team also includes a seasoned entrepreneur / fund raiser.
  - Has embraced Round 21 evaluators feedback.
- IP includes device patent (Three Firefighters) and RF sensing fabric application (Ohio State).
- TVSF funding enables demonstration of an integrated system under realistic conditions.
- Aggressive plan to penetrate \$250M global market.



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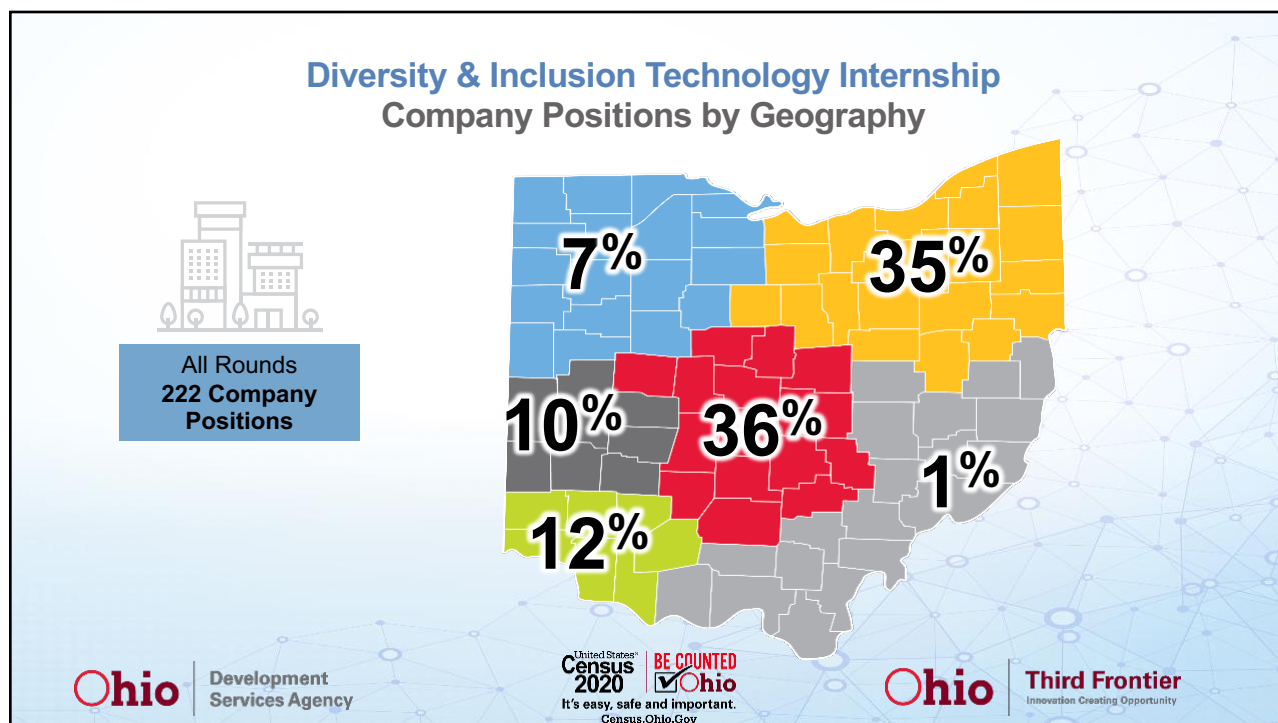
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## Technology Validation and Start-Up Fund (TVSF)

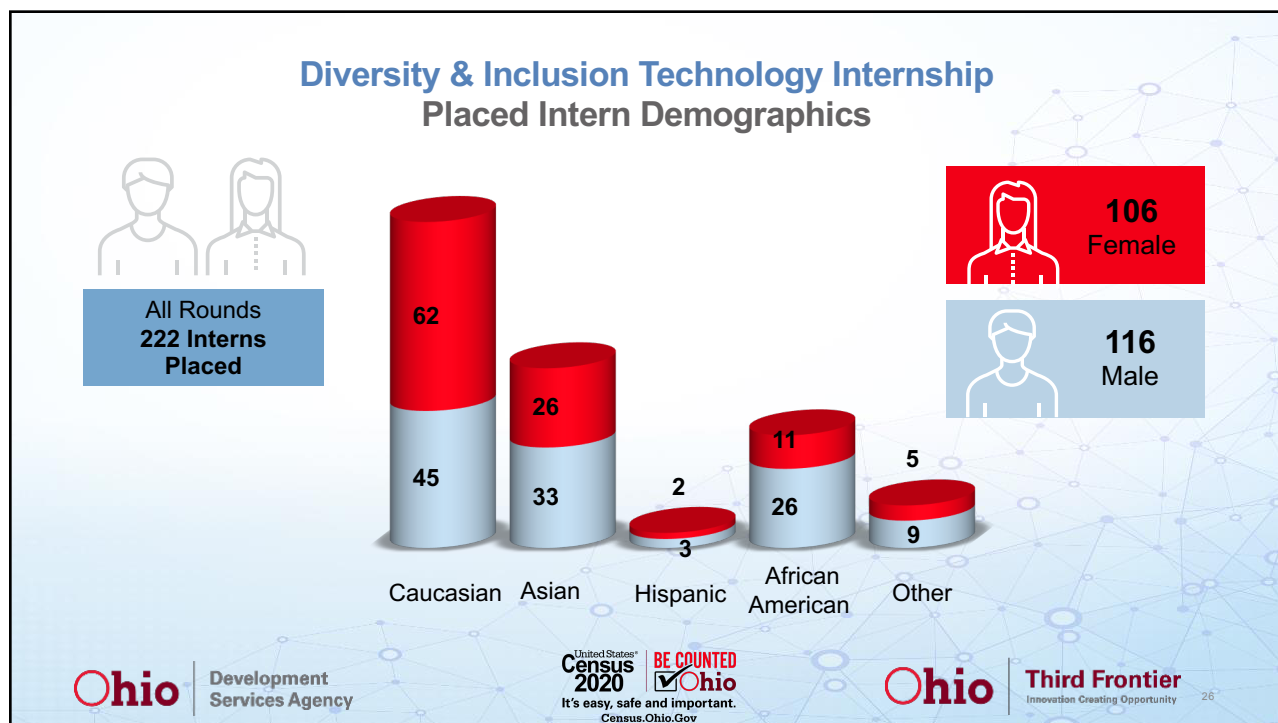
### Round 22 Recommendations



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## Diversity & Inclusion Technology Internship Program Funding


**FY 21 Request for \$2 million**




**Rounds  
6 & 7**





**Includes colleges /  
universities**



**Includes high school  
pilot continued**







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## Other Business

## Adjournment







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