



ANNUAL REPORT

FISCAL 2022 BY THE NUMBERS



**Office of Technology
Management**

UNIVERSITY OF ILLINOIS URBANA-CHAMPAIGN

[OTM.ILLINOIS.EDU](https://otm.illinois.edu)



INVENTION REPORTS

BY THE NUMBERS
Fiscal 2022 annual report



59 DEPARTMENTS

and units across campus worked with OTM in 2022

22% OF FACULTY

who submitted an invention report in 2022 are working with OTM for the first time

5-YEAR HISTORY

5-YEAR AVERAGE



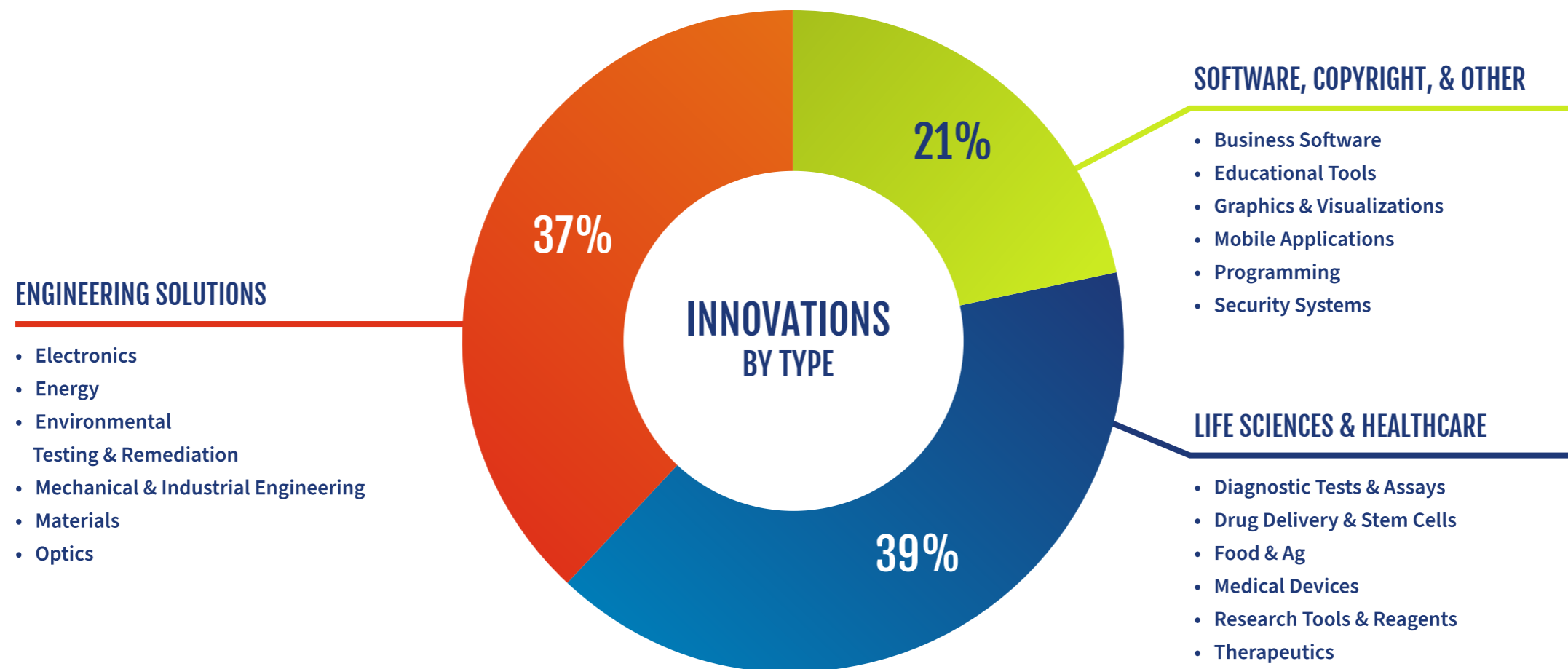
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INVENTION REPORTS FISCAL 2018–2022

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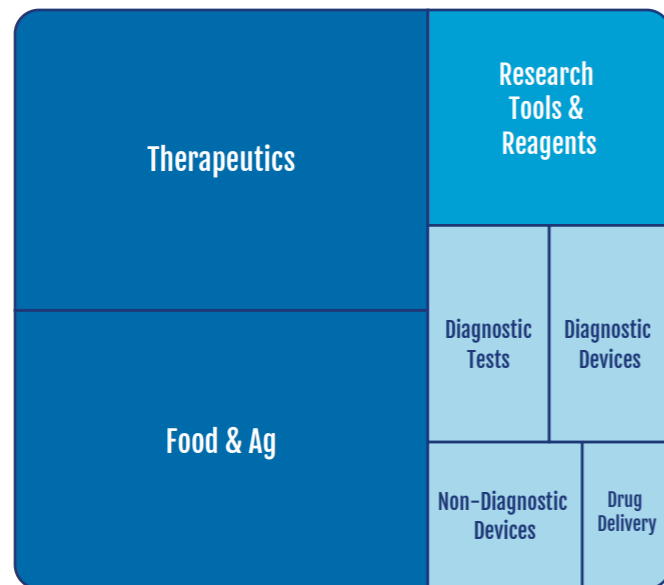
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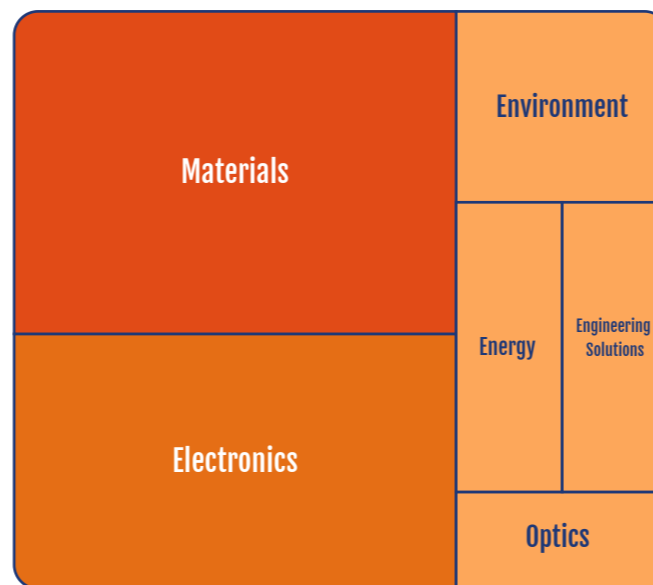
INVENTION REPORTS & LICENSING TRENDS BY SECTOR: FISCAL 2018–2022

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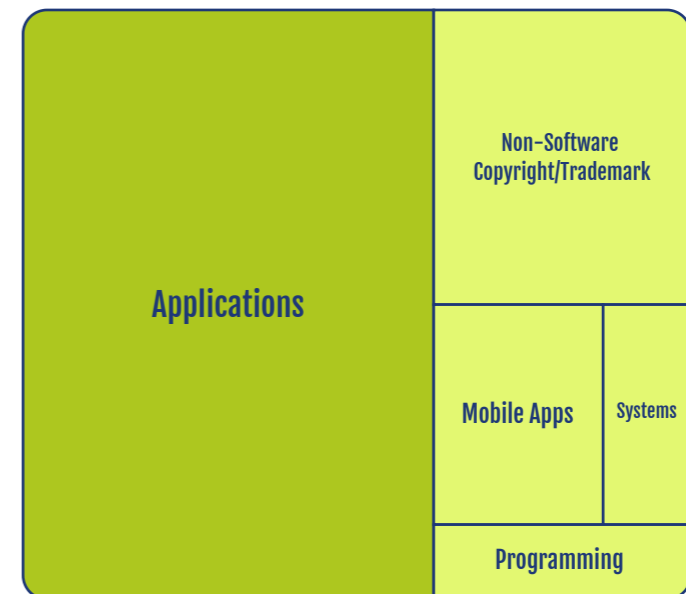
LIFE SCIENCES & HEALTHCARE



ENGINEERING SOLUTIONS



SOFTWARE & COMPUTING



Box size correlates to the percent of total invention reports represented by the sector.
Color intensity correlates to the percent of total licenses and options represented by the sector.



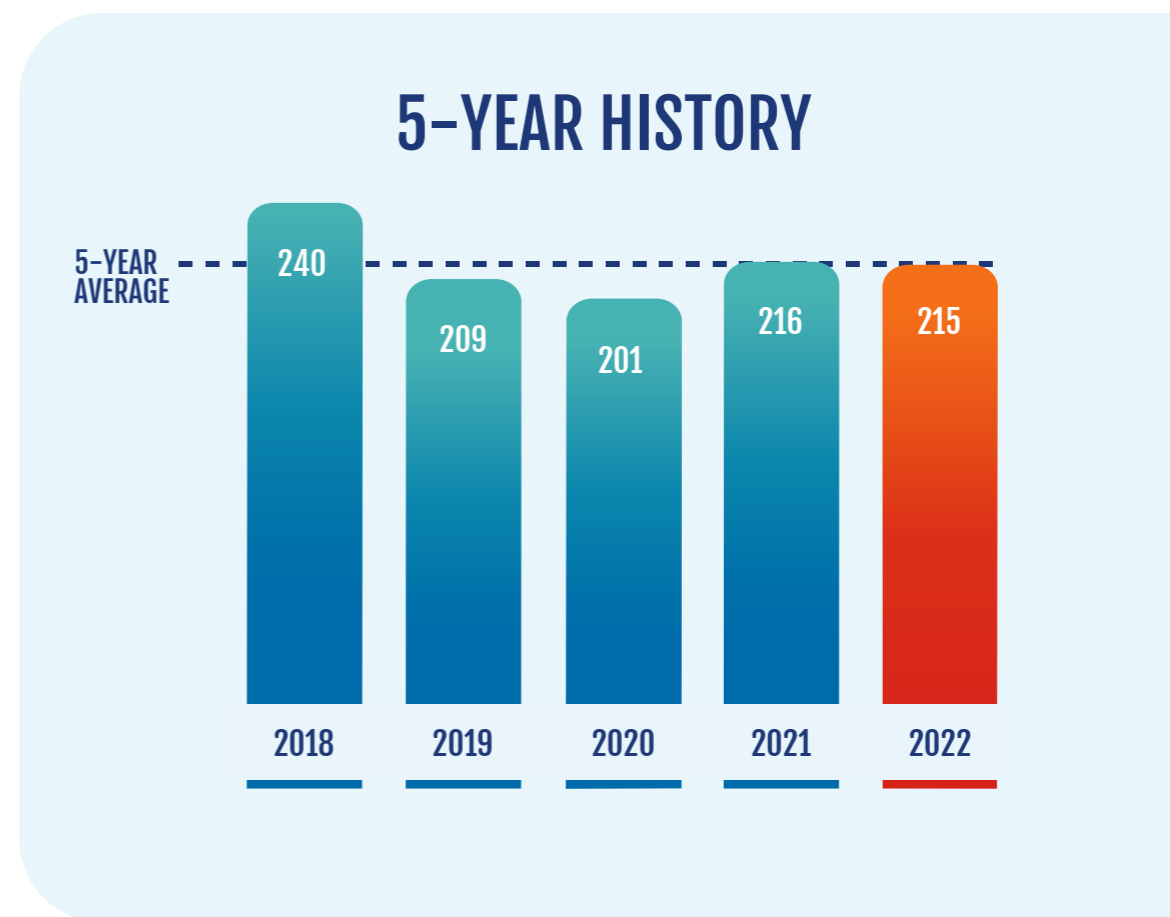
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U.S. PATENT APPLICATIONS

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U.S. PATENT APPLICATIONS

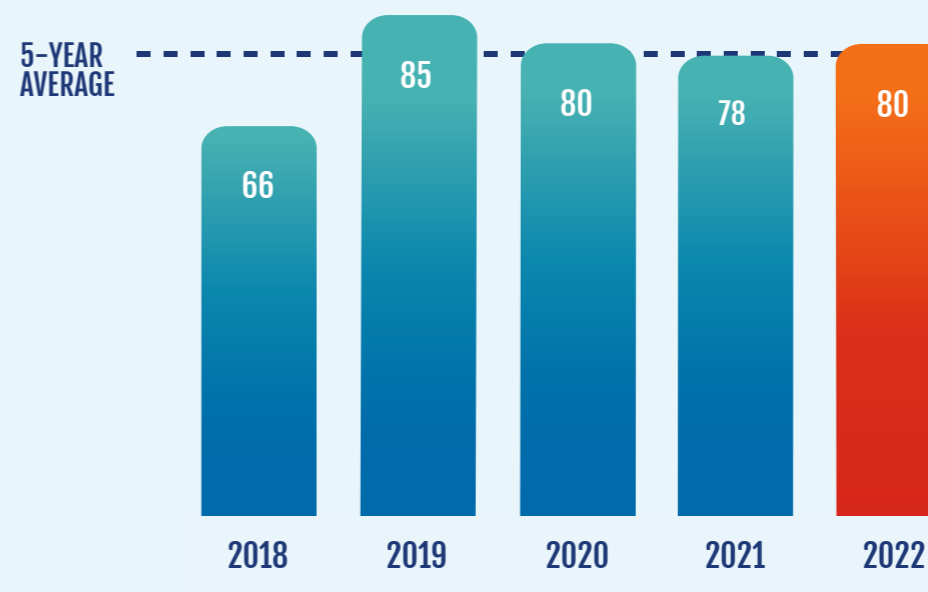
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49% OF U.S. PATENTS

issued in 2022 have been
licensed or optioned

5-YEAR HISTORY



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LICENSES & OPTIONS

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LICENSES & OPTIONS BY ENTITY TYPE

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- STARTUPS
- EXISTING COMPANIES
- SPONSORED RESEARCH
- EDUCATIONAL & NON-PROFIT INSTITUTIONS



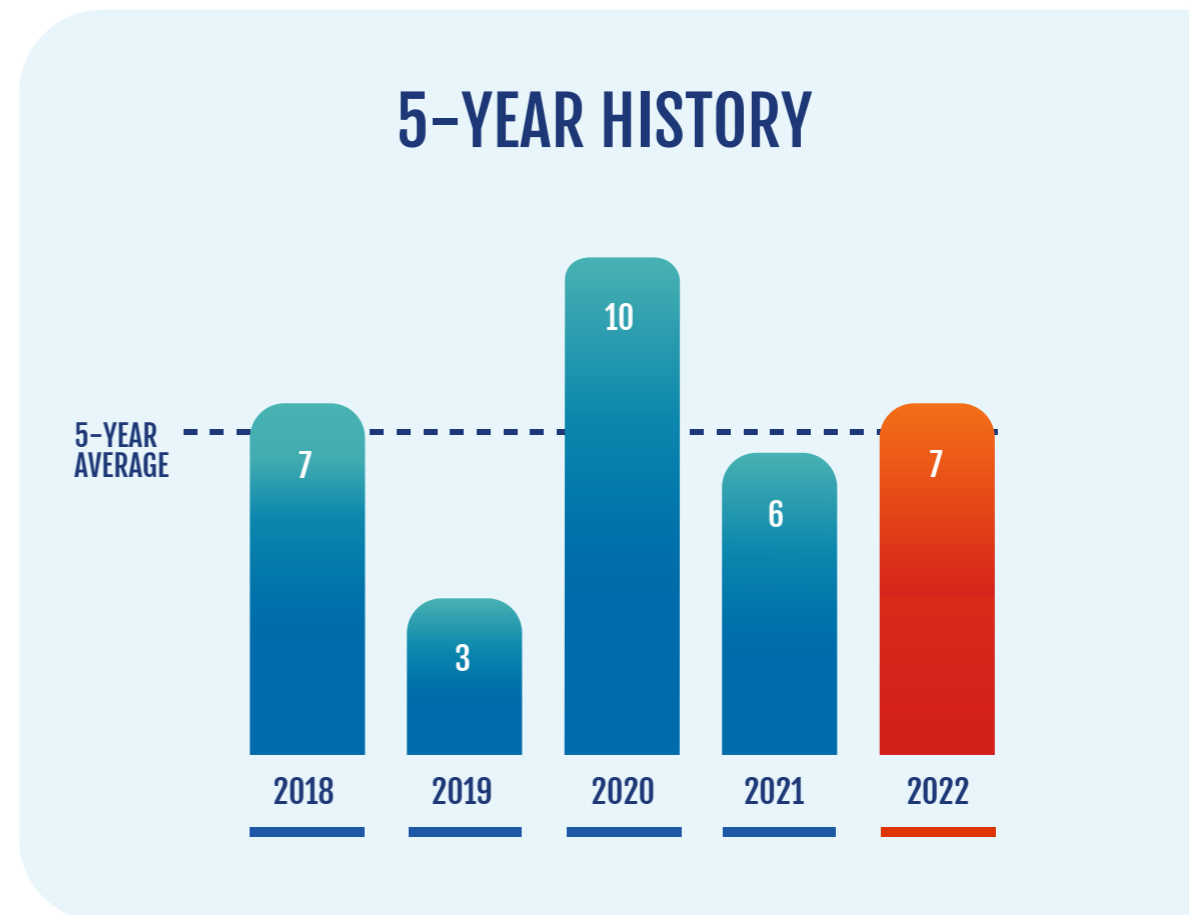
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FIRST LICENSES TO STARTUPS

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FIRST LICENSES TO STARTUPS IN 2022

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Depix

Commercializing an interactive, AI-powered, online image editing platform based on research developed by **David Forsyth** and his group. Headquartered in Montreal.

► depix.ai



MicroMGX

Accelerating the discovery of new chemistry from nature that can enrich and extend human life. Utilizing intellectual property developed by **William Metcalf** and colleagues at Northwestern.

► micromgx.com



Pearl Biotech

Coupling genome and ribosome engineering to produce novel biologics with diverse chemistries that were previously inaccessible. Based on research developed by **Jeffrey Moore** and colleagues at Northwestern and Yale and headquartered in Stamford, CT.

► pearlbio.com



Rhaeos

A clinical stage medical device company developing FlowSense, a noninvasive, wireless, and wearable skin patch that can assess and monitor fluid flow subdermally throughout the body. Utilizing intellectual property developed by **John Rogers** at the University of Illinois and Northwestern and headquartered in Evanston, IL.

► rhaeos.com



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FIRST LICENSES TO STARTUPS IN 2022

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Revive Biotech

Improving oxygen delivery to hypoxic tissues by utilizing innovative nanotechnology, with a focus on treatment for central retinal artery occlusion. Co-founded by **Joseph Irudayaraj** and headquartered in the Research Park.

▶ revivebiotech.com



Specific Diagnostics

Developing in vitro diagnostic systems based upon a metabolomic signature technology created by **Kenneth Suslick** that enables rapid detection and identification of microorganisms as they grow in culture. Headquartered in San Jose, CA.

▶ specificdx.com



VOC Health

Identifying volatile organic compounds (VOCs) created by bio-responses in the body, prior to tumor formation to detect disease at the earliest possible stage. Utilizing intellectual property developed by **Stephen Sligar** and colleagues at the University of Pennsylvania.

▶ vochealth.com



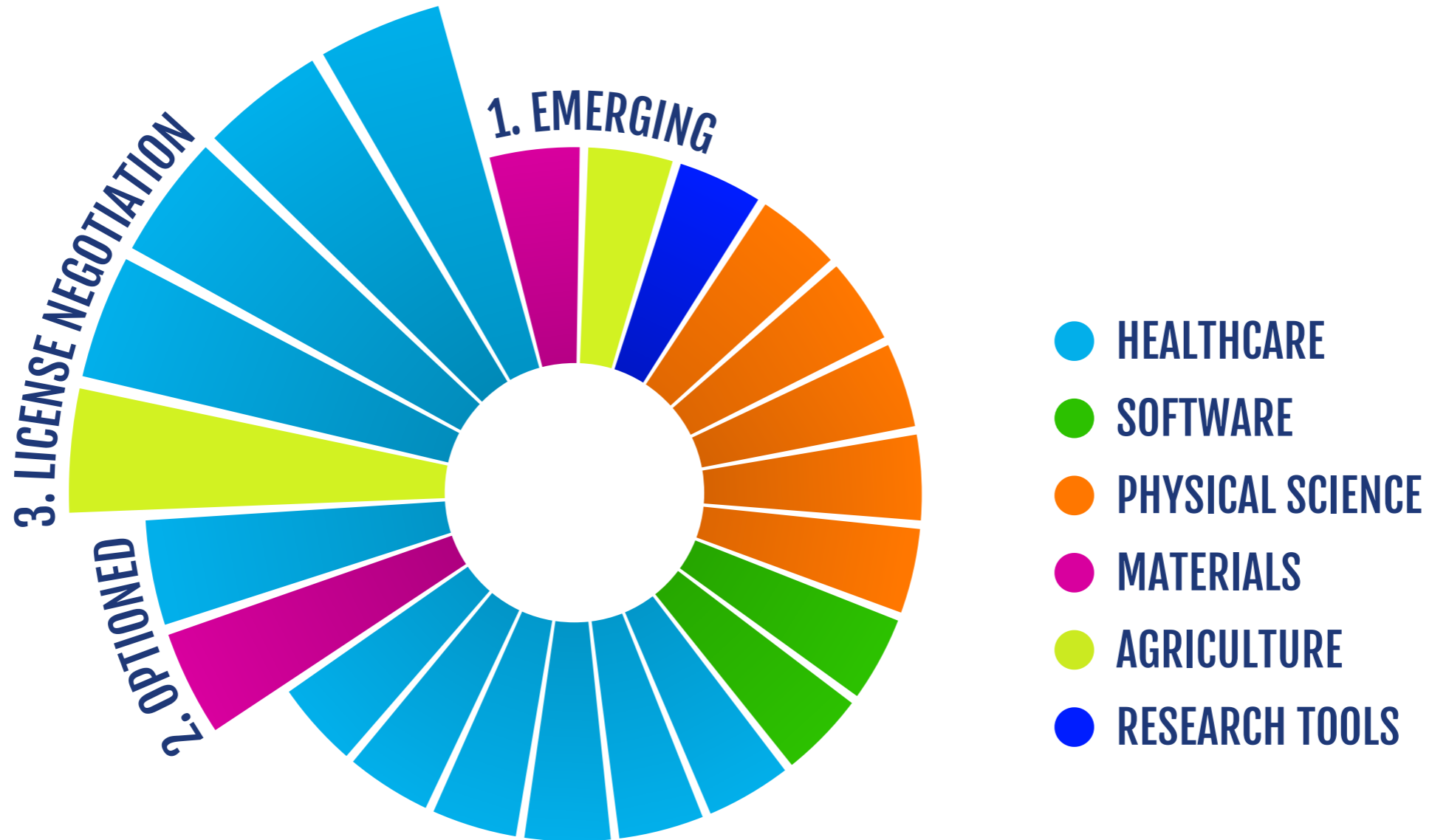
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STARTUP PIPELINE

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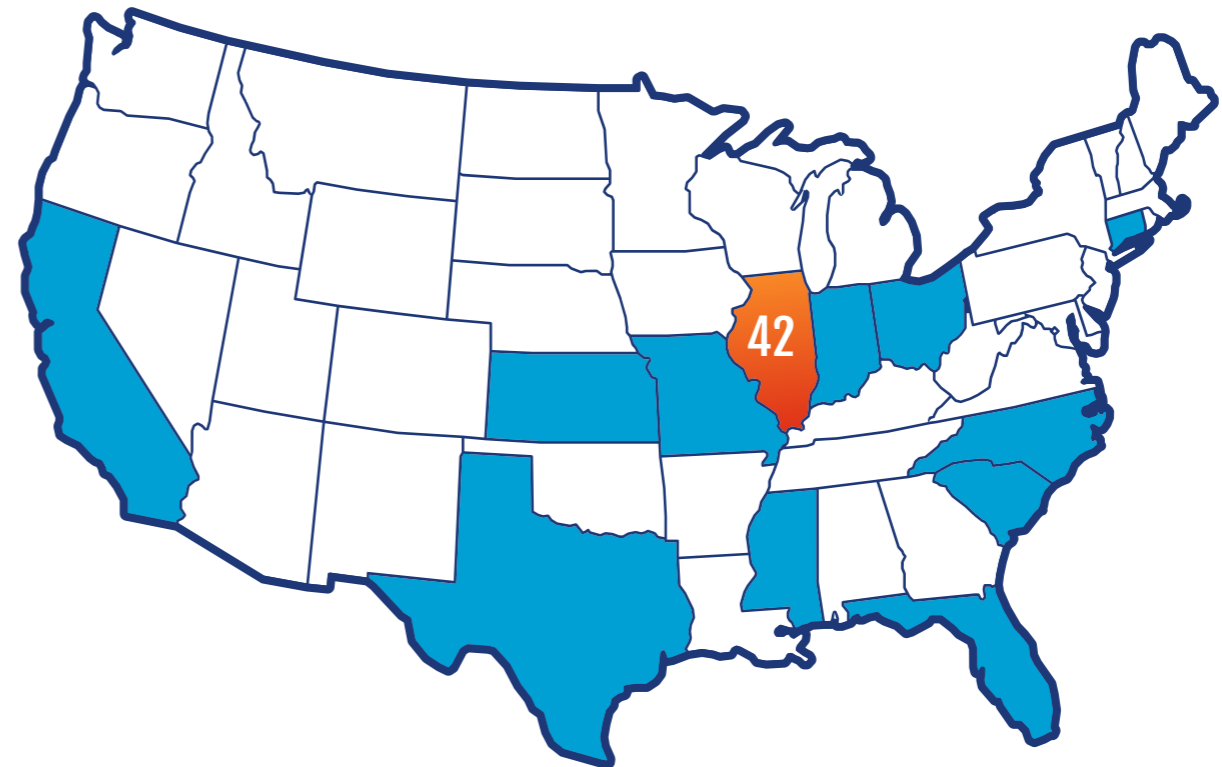
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STARTUPS ACROSS THE COUNTRY

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65 active startups founded on University of Illinois IP have offices across the country and internationally, including **42** in Illinois.



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REVENUE

2022

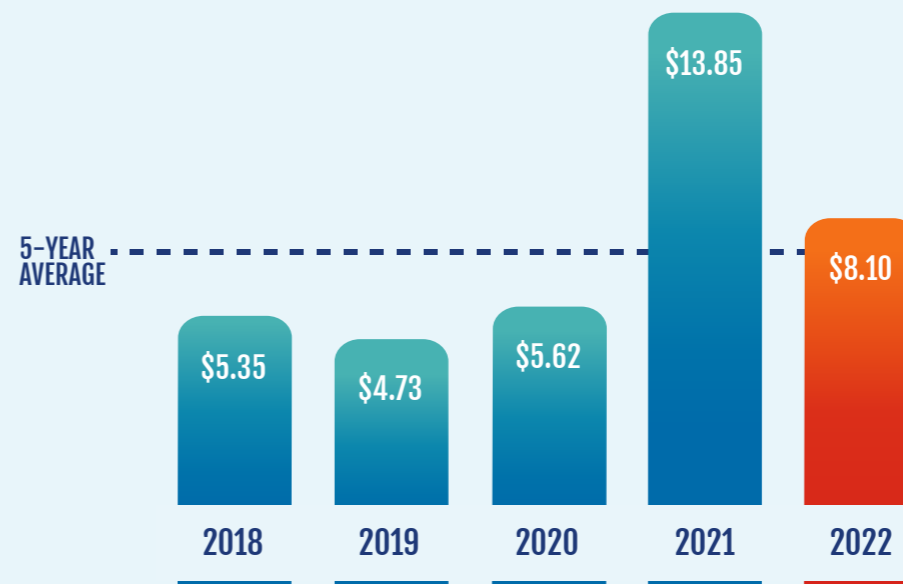
\$8,096,180

\$1,934,616 Patent Expense Reimbursement

Actual Distributions:

\$1,699,471	Inventors & Creators
\$1,364,691	Colleges & Units
\$1,491,651	University Cost Recovery

5-YEAR HISTORY





RECENT REVENUE-GENERATING PORTFOLIO HIGHLIGHTS



Optoelectronic Nose

Optoelectronic Nose: potential applications in the detection of toxic gases, explosives, and rapid diagnosis of disease based on their smell.



Small Molecule Synthesis

Small Molecules: antifungals and molecular prosthetics (small molecules serving as substitutes for missing proteins to restore function).



Printable Semiconductors

Stretchable, flexible, and printable electronics.



Cancer Fighting Compounds

Small molecules with potential applications as therapeutics, including in estrogen-receptorpositive cancers.





DEMOGRAPHICS OF FACULTY INVENTORS WHO DISCLOSED IN 2022

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All Inventors

Total inventors on 2022 disclosures*	612
UIUC inventors	413
UIUC inventors who self-reported gender and race**	309
Female UIUC inventors	83
URM UIUC inventors	12

UIUC Faculty/Faculty-Equivalent Inventors

Total faculty & academic researchers on 2022 disclosures	162
Faculty/equivalent inventors who self-reported gender and race**	162
Female faculty/equivalent inventors	35
URM faculty/equivalent inventors	8

*includes faculty, academic researchers, students, staff, and external collaborators

**self-reported information provided by human resources



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CAMPUS SUMMARY

BY THE NUMBERS Fiscal 2022 annual report

College/Unit	Invention Reports	U.S. Patent Applications Filed	U.S. Patents Issued	Licenses & Options
Campus Total	215	215	80	43
Agricultural, Consumer, & Environmental Sciences	25	12	1	6
Applied Health Sciences	7	3	-	-
Beckman Institute for Advanced Science and Technology	23	30	10	5
Carl R. Woese Institute for Genomic Biology	20	24	2	5
Carle Illinois College of Medicine	12	1	-	-
Engineering	99	131	62	16
Fine & Applied Arts	1	1	-	-
Liberal Arts & Sciences	51	58	22	18
National Center for Supercomputing Applications	-	-	-	1
Veterinary Medicine	6	6	1	2

Note: Due to the large amount of interdisciplinary research on campus, inventions are often associated with more than one college or unit. As a result, the numbers reported in the table above may be counted multiple times, once for each associated college or unit.

