




Innovation & New Ventures at Northwestern

Northwestern

Today's Goals

1. Who are we & what do we do at Northwestern?
2. What does the invention disclosure process look like?
3. What should research administrators know about INVO?
4. How can you learn more about what we do at INVO? 

INVO | Our Mission

To catalyze the translation of Northwestern innovations to benefit the public

- Become a source of impactful innovations and products that improve lives
- Become a magnet for entrepreneurial talent



INVO Staff

INVENTION MANAGEMENT TEAM



Alicia Löffler, PhD
Executive Director



Michael Moore, PhD
Life Sciences



Nicole Janovick, JD, PhD
*Life Sciences,
Copyright*



Gwendolyn Humphreys, PhD
*Life Sciences,
Research Tools*



Wenting Luo, PhD
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Materials Science*



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*Chemistry,
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Isabella Ortiz, JD
*Engineering,
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John Haugen, JD
Assoc. General Counsel



**Dimitra
Georganopoulou, PhD**
*Life Sciences,
Medical Devices*

NEW VENTURES TEAM



Lisa Dhar, PhD
*New Business Ventures
for Engineering*



Sonia Kim, PhD
*Marketing &
Educational Programs*

INVO | Our Activities

Technology Transfer

IP Support (*Consultation, Filing, Office Actions, etc.*)
Technology Evaluations
Marketing Efforts

Innovation & Entrepreneurship Programming

Workshops
Seminars
Mentoring
Internships
Coordination with Classes, etc.

Funds

N.XT Fund (\$10M)
NuSeeds Fund (\$4M)

Space

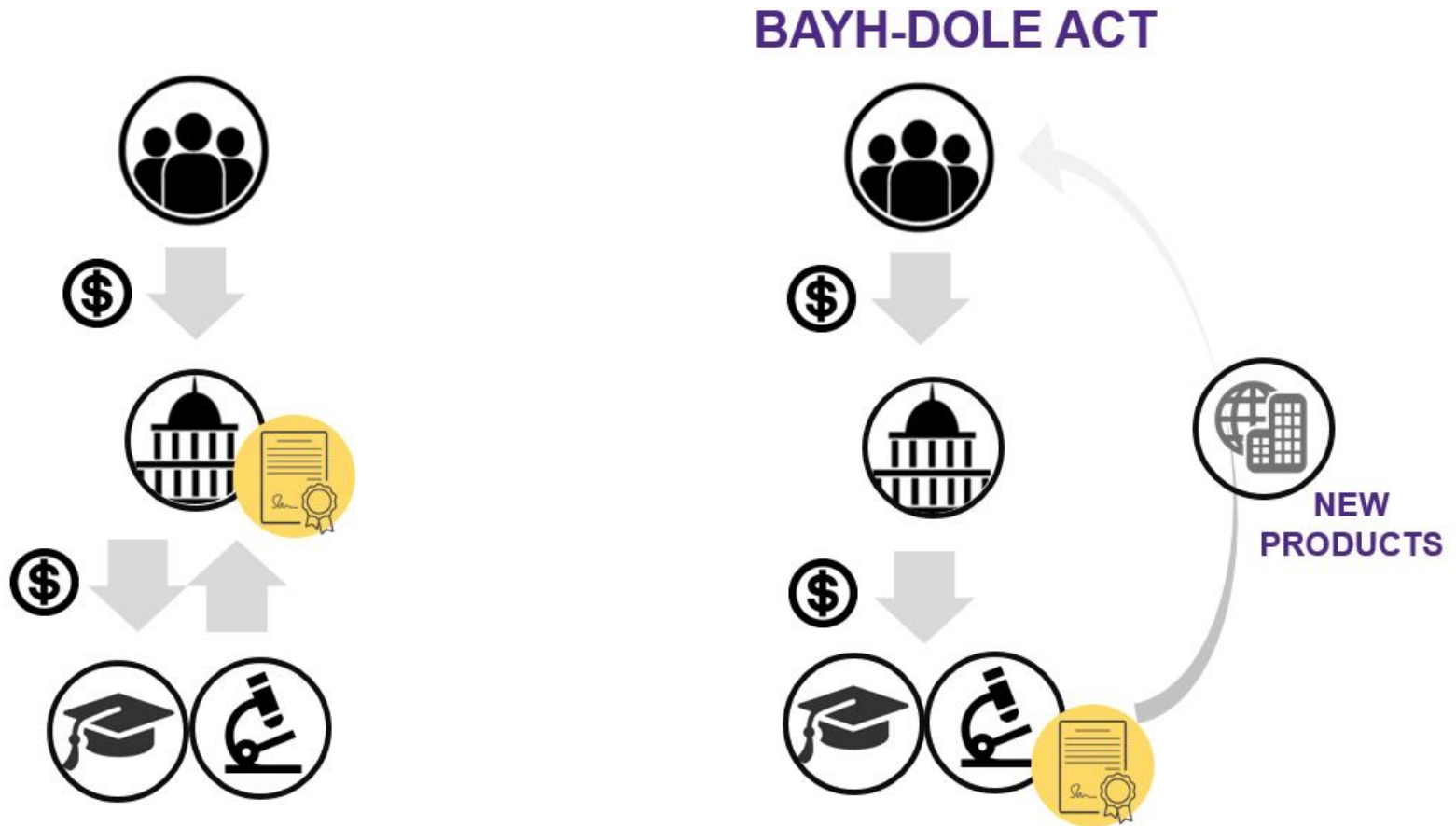
The Garage
Faculty Hub
University Memberships
(mHub, 1871 & MATTER)

Technology Transfer

Technology transfer activities focus on moving technology from the University to the public domain

BAYH-DOLE ACT of 1980

Change in IP Ownership



INVO | FY18 Stats

210

INVENTIONS DISCLOSED

460

PATENT APPLICATIONS

171

AGREEMENTS EXECUTED

7.7

MILLION IN LICENSING
REVENUES, DOLLARS

170

PATENTS ISSUED

9

STARTUPS

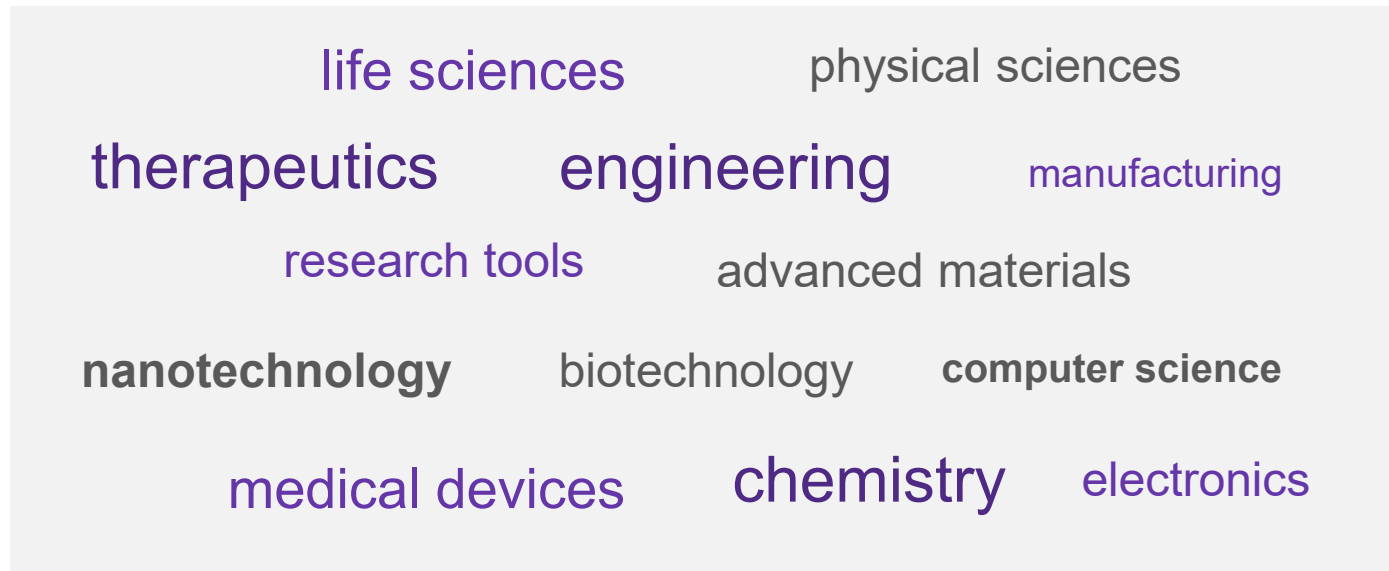
INVO | Areas of Innovation

Northwestern
McCORMICK SCHOOL
OF ENGINEERING

M Northwestern
Medicine®

Northwestern
WEINBERG COLLEGE
OF ARTS & SCIENCES

Northwestern
MEDILL



The Invention Disclosure

An **INVENTION DISCLOSURE** is Northwestern's record of an invention, the inventors involved, sponsorships, & other public disclosures and publications.

Inventors should plan to submit their invention disclosure 3-4 weeks prior to a public disclosure

- Posters/abstracts/proceedings
- Journal articles, book chapters
- Conference presentations
- Some departmental seminars & thesis defenses
- Some grant proposals

**DISCLOSING AN INVENTION TO INVO
DOES NOT PROTECT AN INVENTION.
A PATENT APPLICATION MUST BE SUBMITTED TO THE USPTO**

Reasons to Disclose to INVO

1. PROTECT COMMERCIAL POTENTIAL

INVO can provide feedback on how to proceed in the commercialization process.

2. PROTECT INTELLECTUAL PROPERTY

If IP protection is appropriate, INVO can maximize IP protection if invention is disclosed in advance of public disclosure.

3. FULFILL NU'S RESPONSIBILITY TO REPORT TO RESEARCH SPONSORS

INVO must report all inventions to respective public and private research sponsors.

4. IMPROVE MARKETING WITH INDUSTRY PARTNERS

INVO can help provide industry with insight into available technologies and the research that is taking place at the university.

Important Take-Homes



Complete the disclosure as thoroughly as possible.



Be available to meet with IM to discuss your technology.



Respond to IM as quickly as possible as they may have time-sensitive questions.



Send relevant updates to IM, such as future public disclosures or technology development.

Commercializing Technologies

1. Explore Additional Sponsored Research Opportunities

INVO coordinates with other offices to review IP stipulations.

Ideally, several weeks are needed to review these agreements.



2. License Technology to Existing Company

INVO helps identify and negotiate license agreements.

If there's interest, IMs contact faculty to discuss.



3. Create University Startup

INVO has Startup Guide online.

Northwestern Licensees (Past & Present)



Our Startup Playground

Diagnostic Fingerprinting **Big Data** Gas Storage Software Encryption
Nanomaterials Tangible Haptics Machine Learning Electricity Storage
Personalized Medicine **Robotics** 3D Imaging Software Optimization
Geolocation High Performance Alloys Medical Devices Microfluidics
Artificial Intelligence Point of Care Diagnostics Thin Film Transistors
Nanoparticles Advanced Materials **Wearables** Surgical Devices
Therapeutics Biomedical 3D Printing 3D Vision Sound Engineering
Biotechnology Nanofabrication Cancer Diagnostics Plastic Recycling

Northwestern Startups



Recent Issues for Discussion

Pre-Award

- Commercialization Plan or IP Provisions – Reach out to INVO/Invention Manager early

Disclosures – Key items

- Employee ID to identify personnel @ NU – our system is linked to myHR
- Funding accuracy
 - Corrections result in costly fees to NU – each one can be hundreds of \$
 - When possible, include grant Project Award Summary as an attachment to disclosure

Agency Requests

- If you are ever asked from an agency about reporting, please reach out to INVO early
- iEdison Reporting – INVO takes care of this; Please reach out to INVO/Invention Manager if asked by agency
- Foundation/Private funding compliance – INVO takes care of this; Please reach out to INVO if asked by agency

Ways to Learn More about INVO

WEBSITE: Visit www.invo.northwestern.edu. For global I&E, visit <https://www.northwestern.edu/innovation/index.html>

INVO NEWSLETTER: Sign up on our home page

SOCIAL MEDIA: Follow us on Twitter (@INVOatNU)

STUDENT OPPORTUNITIES: INVO Practicum Interns and N.XT Associates

THANK YOU

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