Intellectual Property, Technology Transfer, and Corporate Sponsored Research

Stephen Roberts
Director, Technology Commercialization and Research Finance
Research and Sponsored Programs

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Bowman Room 206
I am a firm believer in the people. If given the truth, they can be depended upon to meet any national crisis. The great point is to bring them the real facts, and beer.

-Abraham Lincoln
Office of Technology Commercialization

The Office of Technology Commercialization assists faculty and staff in protecting, marketing, and licensing university inventions with commercial potential.

Stephen Roberts, MBA
Director, Technology Commercialization and Research Finance
207Y Schwartz Center
330-672-6323
srober55@kent.edu
Office of Technology Commercialization

- Assist with Intellectual Property (IP) protection
- Market Assessment
- Licensing
- Commercialization
- Non-disclosure agreements (NDA)
- Material transfer agreements (MTA)
- Support KSU Patent Review Board
- Assess for commercialization potential
  - License the technology
  - Create start-up company
  - Support commercial viability research

For more information: [http://www.kent.edu/research/commercialize-your-technology](http://www.kent.edu/research/commercialize-your-technology)
Protecting your Intellectual Property
Basis for Patent Protection in the U.S.

US Constitution, Article 1, Section 8

“Congress shall have the power . . . to promote the progress of science and useful arts, by securing for limited times to authors and inventors the exclusive right to their respective writings and discoveries.”
Established the US Patent & Trademark Office

To obtain protection under U.S. law, an applicant must submit a patent application to the USPTO, where it will be reviewed by an examiner to determine if the invention is patentable.
Patent Protection: What It Is / Is NOT

What it is

• A limited period, government granted, “negative right”
• Legal monopoly, for a limited duration, in exchange for disclosure to the public

What it is NOT

• A grant of any right to make, use or sell an invention
Three Types of US Patents

**Utility Patent**

- **Process**
  
  Steps for making a new chemical or a new business method

- **Machine**

  Man-made apparatus with moving parts (engine, camera)

- **Article of Manufacture**

  Man-made apparatus without moving parts (carpet)

- **Composition of Matter**

  Chemical compositions, mixtures of substances (adhesives)

**Design Patent**

Ornamental appearance of an article of manufacture

**Plant Patent**

Distinct and new variety of asexually propagated plant
What Can Be Patented?

Invention must be

- **Novel**: not previously known or used by others
- **Useful**: have a known use or produce a concrete and tangible result
- **Non-obvious**: not obvious to a person having ordinary skill in the art

Invention can not be

- Anything not useful and operative
- Laws of nature, physical phenomena, abstract ideas
- The *idea* of a process, machine or manufacture
Research Publications & Patents

“NOVELTY; PRIOR ART.- A person shall be entitled to a patent unless the claimed invention was patented, described in a printed publication, or in public use, on sale or otherwise available to the public before the effective filing date of the claimed invention . . .”

35 U.S.C. 102(a)(a) (emphasis added)
Exception in the US: Disclosures made by the inventor or a joint inventor 1-year or less before the invention is filed for protection.

WARNING: Many international jurisdictions, including Europe, Japan, and China, to not recognize the grace period-

PUBLICATION = PRIOR ART
The purposes of the KSU patent policy:

• To promote the progress of the arts and sciences through research and scholarship and the professional development of the university's faculty, students, and staff;

• To make inventions resulting from the efforts of university faculty, students, and staff available to business and industry, as well as the general public after applying section 3345.14 of the Revised Code;

• To obtain revenue for the university for use in furthering its educational and research goals;

• To provide appropriate compensation in accordance with the university policy on distribution of license and royalty income, for university faculty, students, and staff who invent.
IP Ownership and Royalty Distribution Policy

• As a state-chartered university, Kent State University owns any IP developed in our labs and offices. University pays all patent, marketing, licensing costs.

<table>
<thead>
<tr>
<th>Licensing Income</th>
<th>Inventor</th>
<th>RASP</th>
<th>Inventor’s Academic Unit</th>
<th>KSU General Fund</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt; $100,000</td>
<td>40%</td>
<td>30%</td>
<td>15%</td>
<td>15%</td>
</tr>
<tr>
<td>Gross up to $100k</td>
<td>40%</td>
<td>30%</td>
<td>15%</td>
<td>15%</td>
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Above $100,000, KSU recovers patenting and marketing expenses. Net income split according to formula above.
Patent Process

1. Submit Invention Disclosure Form (IDF)
   [http://www.kent.edu/research/commercialize-your-technology](http://www.kent.edu/research/commercialize-your-technology)

2. File provisional application with USPTO (Starts one year priority period to continue your research).

3. Publication or presentation at conference

4. Evaluation by KSU Patent Review Board

5. Market Assessment


7. Licensing

8. File non-provisional application with USPTO for utility patent
Technology Transfer
Kent Displays was founded in 1993 by Professor Bill Doane of the Liquid Crystal Institute at Kent State University and William Manning of Manning and Napier, Rochester New York.
Cleveland State University & Kent State University collaboration to help move faculty technology & innovation from research labs/facilities into commercial markets.

Half funding from Ohio Third Frontier Fund, half from CSU and KSU.

Grants from $10,000 to $100,000; used to validate university owned technology, build prototypes, and analyze commercial market potential.

Two step application process:

1. Two page Letter of Intent, reviewed by Screening Committee

2. If approved, we send a 6 page application for you to prepare, reviewed by 9 member Selection Committee.
Value Proposition

- What is the problem or need?

- Who has the problem or need?

- How is the problem/need currently solved/met?

- How is your solution unique?
Value Proposition

Our product/service is ________________
(noun or short phrase)

for ________________ who are
(potential application/users)

dissatisfied with _________________.
(current market alternative that addresses same pain point)

It provides _________________.
(potential benefits)
Kent State Support

• Karen MacDonald, Business and Entrepreneurship Outreach Librarian

Databases, library resources for industry and market research.

Excellent LibGuide-https://libguides.library.kent.edu/prf.php?account_id=51940

Small Business Development Center- Tom Southards

Great resource for small business. Help create LLC, Growth Wheel, find manufacturers to help build prototypes.

• LaunchNet – Julie Messing, Zach Mikrut, Tabitha Messmore

Support start-ups of students, faculty/staff, alumni. Trained in Lean Launch & Business Model Canvas. Valued partnership builder across campus.
North East Ohio Support Programs

• JumpStart- Entrepreneurial Support Program for NE Ohio.
  Offices in Cleveland, Akron, Canton.
  Venture Validation program- assess commercial potential for early-stage tech.

• BioEnterprise- bioscience support. Based in Cleveland.
  Access to Venture Capital, Private Equity, grant funding
  350+ start-up companies, over $2 Billion raised

• MAGNET- Manufacturing Advocacy and Growth Network
  Cleveland and Akron
Corporate Sponsored Research
What Are Corporate Partnerships?

• Comprehensive strategic relationships between industry & higher ed that span multiple interests across academic disciplines:
  • Research collaborations with faculty
  • Engaging with talented faculty
  • Recruiting talented students for employment
  • Developing & licensing university technologies
  • Training & educating company employees
Broaden Faculty Engagement

Broaden KSU faculty participation and relationship-building opportunities with corporations.

- Help early-career and mid-career faculty collaborate more effectively with corporations.
- Strengthen linkages between corporations and KSU’s strongest multi-disciplinary research teams.
- Foster improved faculty & student tech transfer, commercialization, and start-up efforts.
• Flashfast Licensing - The Ohio IP Promise

• Flashfast Licensing is designed to establish a clear, easy to understand process for licensing intellectual property developed at Kent State University from industry sponsored research.

• Sponsored Research Licensing Options:

  • Option 1: Non-Exclusive Royalty Free License

  • Option 2: Paid-Up Exclusive License. Sponsor receives an exclusive license for any IP developed from the SRA
Summary

We’re here to support your research in IP with commercial potential.

...and to do that by working with you and others in Northeast Ohio to provide needed services and increase your odds of success.

Now, let’s talk about your ideas and questions.