

# **Transferring Technology to the Commercial Marketplace**

## **The Steps to Commercialization**



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# **Step 1: Analyzing the Disclosure: Invention Disclosure and Checklist**

- **Type of technology**
  - Patent
  - Copyright/Software
  - Biological Materials
- **Ownership issues**
  - Identifying true inventors/authors and status when technology developed  
(required to assign/not required to assign)
- **Prior agreement obligations – who is entitled to licenses**
- **Identifying any bars**, i.e. prior publication, use of third-party owned intellectual property or other encumbrances that would preclude transfer for commercialization



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## **Step 2: Meeting with Inventor: Invention Disclosure and Patentability Evaluation**

- Assessing stage of the invention? prototype, proof of concept, in vitro/vivo experiments?
- If technology patentable, is publication bar anticipated?
- What is novel about the discovery/potential commercial uses
- Does inventor know companies that may be licensees?
- What would the inventor like to do? Start-up possible?
- Setting reasonable expectations with the inventor as to:
  - **Filing patent applications**
  - **Understanding how to deal with patent attorneys**
  - **Marketing assistance, if any, expected from the inventor**



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## Step 3: Protecting the Invention

- Dangers on the way to patenting
  - Enthusiastic Inventor discloses to 3<sup>rd</sup> parties, including colleagues and students
  - Inventor submits an article for peer review
  - Following the rules, Inventor discloses the invention to the TTO, but the TTO is careless about handling it
  - The TTO is not careless, but underestimates honesty of potential licensees



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## Step 3.5: Ensuring the Invention is Protected

- Once Invention enters patent system – patent laws will provide protection against thievery for most part
- But, if Invention not yet in patent system – 2 possibilities for protection
  - **Trade secret**
    - Protects Invention against misappropriation (theft)
  - **Contract**
    - Protects Invention against misuse by potential licensees



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## Step 3.5: Ensuring the Invention is Protected

- If Invention (before patenting) qualifies a “secret” and is maintained . . .
  - **TTO does**
    - Develop a nondisclosure agreement to cover
    - Develop a non-confidential summary
    - Consider filing patent application
  - **TTO does not**
    - Put description of invention on its website
    - Disclose invention to potential licensees without requiring nondisclosure agreement to be signed



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## Step 4: Protecting the Invention During Commercialization

- Protecting Invention from misuse by contract during licensing period
  - Simple nondisclosure agreement not sufficient for pre-licensing negotiations
  - Best practice: use a contract **to protect invention as an asset throughout the patenting period**
    - Avoids licensee misuse of invention if secrecy lost inadvertently or invention is published in patenting process
    - Provides continued protection if leaks occur
    - Allows Inventor to publish



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## Step 4: Protecting the Invention During Commercialization

- Essential terms of a Pre-Market or Option Agreement
  - **Parties**
    - Authorized signatories
  - **Definition of Invention**
    - May have changed – will need to include patent application, issued patent and patent-owner case or tracking identifier
  - **Reaffirm confidentiality obligations as long as Invention is not publicly known**



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## Step 4: Protecting the Invention During Commercialization

- More terms of contract
  - Permitted uses
    - Evaluation only
    - No use in company research
    - No use for or as commercial product
  - No express or implied license, except evaluation; no obligation for license relationship on part of parties unless specifically included (see following)
  - Potential Licensee to make decisions/exercise option within specific time period
  - Add disclaimers of warranties and representations



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## Step 4: Protecting the Invention During Commercialization

- Limit extent to which invention becomes known. The more people who know it the less likely it will have trade secret protection (remember, in pre-patent stage, no patent protection- so Trade Secret may be only legal protection available)



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## Step 4: Protecting the Invention During Commercialization

- Take effective protective measures
  - Through education of faculty inventors & administrators
  - Provide nondisclosure agreement to inventor – just in case he/she contacts a company
  - Add non-disclosure provisions covering inventions to industrial research contracts
  - Release only non-confidential information for general/website marketing
  - Release enabling description of Invention to third party only under nondisclosure



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## Step 5: Whether to Patent: Patentability Evaluation

- Assess patentability through literature search for prior art
- Get recommendation/cost commitment from outside patent attorney
- If dedicated patent firms (or attorney that the TTO or inventor prefer to use), involve them early in the process



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## **Step 5: Whether to Patent: Product Characteristic & Market Potential**

- Assessing commercial potential using a number of factors including
  - Highest and best use
  - Weighing advantages over existing technologies
  - If new, weighing the barriers to market
  - Assessing the strength of competitors
  - Estimating market size
  - Determining strength of patent/can its use be policed?
  - If time and resources can do market study
  - If patent committee involved, send to patent committee with findings/recommendations



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## Step 5.5: Patenting: Use Market Potential Evaluations (unless building inventory)

- Determine where to file based on early “best use” assessment
- File cheapest (PCT) if possible
- If possible, respond to early licensee preferences for geographic protection
- Make decision: Who will prepare application and file?
  - University/research center
  - Licensee
  - Other ?



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## Step 5.5: Patenting

- **Finding Patent Funding**
  - Institutional budget – annual set aside based on budget forecast
  - “Pay as you go”/funds spent dependent upon royalties received and % retained in “royalty account”
  - Licensee commits to paying patent costs
  - Department, Lab, Center pays for its own patent filings
  - Industry research consortia members commit % of research funding to fund patenting



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# Step 5.5: Patenting

- **Finding Patent Funding**
  - **Outside “captive” fund pays (may be a regional or national fund)**
  - **Any venture fund pays costs for selected candidates**
  - **Patent Fund “Start-up” Grant (most likely term limited)**
  - **Angel/inventor investors (for spinouts)**



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# **Transferring Technology to the Commercial Marketplace**

## **All About Marketing**



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# Step 6: Getting Ready to Market

- Prepare non-confidential abstract
- Follow-up leads from inventor or consultants
- Is outside marketing expert needed – determine early as marketing reports take time
- Decide on best marketing strategy
  - **Targeted marketing** - focus on 1-3 companies
  - **Shotgun approach** – mass mailings, technology databases
  - **Timed approach** – beginning with targets and broaden if no show of interest by a certain date



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# Step 6: Getting Ready to Market

- Prepare marketing information package including patent application if ready or filed
  - **Describe research**
  - **Have marketing tools in place**
    - Rolodex, invention abstract, patent search, corporate directories, trade journals, database access, NDAs, names of commercial assessment firms, if needed.



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## Step 7: Marketing: Marketing & Product Profiles, Company Comments

- Maintain constant contact with prospects
- Set up inventor/prospect meetings; send inventor out on licensee prospect visits (not alone)
- Make sure all necessary information is accessible and user friendly
  - Results of patent search
  - Test data
  - Copies of publications
  - Manuscripts
  - Patent application
- Have “basic terms” prepared on paper including royalty terms and supporting backup



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## Step 7: Marketing the Technology

- Expect difficulty in marketing to existing companies.  
What you can expect to hear:
  - The “science” is unproven – no one believes it
  - The idea is too new – the market is unproven
  - Development costs too high and too risky
  - We have no R&D capability that can handle it
  - We are already over-committed on research and development; it competes with our own products
  - If we didn’t invent it, we don’t want it
- Essential to find a champion within the company – VP New Products, VP Business Development, leading company scientist, or higher



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## Step 8: Negotiating the Royalties

- “The licensee determines the royalty by agreeing to pay it!”
- The Licensee and Licensor will both arrive at an acceptable royalty range.
  - **The licensee will use factors such as**
    - Value of licensed product to end customer
    - Cost of development
    - Dynamics of the marketplace (how robust is it)
    - Competition
    - Its own financial forecasts



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## Step 8: Negotiating the Royalties

- The licensor will use factors such as
  - The number/kind of IP assets licensed (or bundled)
  - The scope of the license rights
    - Exclusive or non-exclusive
    - Geographical area covered
    - Field of use
    - License term
  - Commercial potential
  - R&D to be carried out
  - Barriers to the marketplace



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## Step 8: Negotiating the Royalties

- Walking away
  - **Each party decides its “walk away” price**
- Bargaining begins . . . but, all forecasts are hypothetical
- Factors that may make a difference in “price”
  - **Importance of licensed technology to final product**
  - **Type of product and how unique it is**
  - **Typical profitability of the type of product**
  - **Strength and “reach” of the IP**
  - **Whether blocking IP requires additional licenses**
  - **Development cost & time to market**



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## Step 8: Negotiating the Royalties

- Overall “business” expertise needed to negotiate royalties
  - Knowledge of product development, manufacturing process
  - Knowledge of markets
  - Knowledge of pricing for comparable technologies



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## Step 8: Sample Royalty Ranges (MIT)

- License without equity
  - License issue fee: \$10,000-\$200,000
  - Annual license fee (minimum royalties): \$20,000>\$200,000
  - Milestone payments if applicable: \$50,000>\$1,000,000 (Upon FDA approval)
  - Running royalties: 0.5% - 7% (or higher for software and drugs)



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## Step 9: Closing the Deal

- Control drafting of the license agreement
- Make sure you have authority to commit and so does the party across the table
- Make sure the inventor knows the deal – document it
- Make sure all stakeholders understand the deal and have the same expectations



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# Step 10: Follow Through: License Profile

- Get signed agreement
- Complete license file
- Place “trigger” dates into database
  - **Sending notices**
  - **Sending invoices**
  - **Due diligence reports due**
  - **Royalty reports due**
- Flag any encumbrances in the license
  - **Improvements licensed**
  - **First option to fund related research**
  - **Requirement to include updates to software, new applications etc.**



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# Alternative Commercialization Strategies

- Delaying the deal through use of the Option\*
  - Usually option is exclusive for a limited period of time (you are taking the patent application/patent off the market)
  - Prospective licensee/optionee pays patent costs and modest fee
  - Optionee agrees to confidentiality
  - May fund research if needed to “prove” invention
  - Optionee must exercise option by date certain or terminate it (avoid the open-option dilemma)



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## Alternative Commercialization Strategies

### ■ Licensing Trade Secrets

- **First step: Analyze disclosure for trade secret properties (U.S. requirements)**
  - Non-public information
  - Owned by employer
  - Has economic value
  - Intent to maintain in secrecy



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## Alternative Commercialization Strategies

### ■ Licensing Trade Secrets

- Second step: Define it with specificity
- Third step: Disclose only under non-disclosure agreement
- Fourth step: Consider step-down license if information is known
- Fifth step: Set up management system



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## Alternative Commercialization Strategies

- Licensing Know-How – A few pointers:
  - Must be carefully defined with rights retained, if needed
  - Must assign a value to it (needs to qualify as “consideration”)



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# Alternative Commercialization Strategies

- Licensing Know-How – A few pointers:
  - **Combining with patent license takes planning**
    - Pluses: Adds value to patent license and may extend life of the license beyond the patent term
    - Minuses: If patent license terminated or breached is know-how license also terminated or breached and vice-versa?
  - **Best practice: Combine a non-exclusive know-how license with an exclusive patent license**



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## Alternative Commercialization Strategies

- Licensing Biological Materials – A few pointers:
  - Exclusive license removes them from institutional use unless continuing research rights are reserved
  - Must reserve rights for research/experimentation if publishing or journals will not accept article
  - Non-exclusive licenses may be enough although will be at reduced royalty
  - Consider licensing for research but require additional license for commercial use



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# **Transferring Technology to the Commercial Marketplace**

**Collaborating with Industry**



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# **University-Industry Relationships in the U.S.: The Many Options**

- Single sponsor/single SOW research projects
- Consortia (many companies funding together)
- Cooperative Research (government funded with company)
- Master/Umbrella Agreements
- Long-term Alliance Agreements
- Joint Studies/no cost
- Visiting Scientist Exchange Agreements
- Material Transfer Agreements



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# Standardized Terms Generally Found

- Inventions are owned according to U.S. patent law
  - **Mine, yours, ours**
  - **No accounting or licensing approvals required where patents are jointly owned through co-inventorship**
  - **Invention ownership is not assigned to industry: fairly universal rejection by universities of “we paid for it so we own it” philosophy**
- Same with copyrights and all other IP
- Publication delays only for sponsor confidential information and potential patents
  - **Usually a 90 day limit**



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# More Standardized Terms

- Research sponsors do receive license grants
  - **Most common:** Royalty-free, non-exclusive license without right to sublicense; option to negotiate a royalty-bearing exclusive license
  - **Uncommon:** Royalty-bearing license to be negotiated
  - **Middle ground:** Royalty-free, non-exclusive for non-commercial purposes
- Royalty rates
  - **Most common:** Fair and reasonable to be negotiated
  - **Uncommon:** Pre-set in research agreement
  - **Possible middle ground:** Floor > Ceiling set in research agreement



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# And, More Standardized Terms

## ■ Who Files?

- Common: University files through patent counsel of choice
- Not quite so common: University permits industry sponsor to file provided university has right of review and comment
- Issue: Who is the client?



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# And, More Standardized Terms

- Payment of patent costs
  - Most common: Sponsor/licensee to pay if license is exclusive
  - Uncommon: University undertakes obligation to file and always pays
  - Middle ground: Sponsor to pay to ensure patent application is filed; otherwise discretionary with university



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# Identifying Clauses That Play a Role in Technology Transfer

- The parties (who will be the “licensee” if IP is developed)
- Typical clauses involving intellectual property rights/obligations
  - **Definitions of “invention” and other IP**
  - **Requirement to disclose**
  - **Patent filing obligations; foreign filing elections and who pays**



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# Identifying Clauses That Play a Role in Technology Transfer

- Typical clauses involving intellectual property rights/obligations
  - **License rights- patents/copyrights/software/trp**
    - Vesting under research contract ("hereby grants" vs. "agrees to grant")
    - Option periods
    - License terms
  - **Background rights**
  - **IP warranties, representations**



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# The Background Rights Dilemma

- Background rights – rights to university's pre-existing, concurrently developed and in some cases "to be developed" IP outside of the scope of the research program.
- Typical clause requires university to give/license the sponsoring company rights to use any other IP owned by the university that is necessary for/useful for practicing inventions/copyrights or all research results developed during the project. Right is usually open-ended – no time limit on the obligation or exercise of it



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# The Problem with Background Rights: A Clearer View

- Impossible to speculate what university IP will be encumbered because:
  - **Invention to which background rights are tied hasn't been made yet**
  - **Impossible to know how the sponsor may at some future time use an invention, copyright or other research result**
- Provides industry with entitlement to unfunded IP
- Ties up IP developed by investigator who never took sponsor funding –diminishes the rights/expectations of unsuspecting inventor



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# The Problem with Background Rights: A Clearer View

- Guts university tech transfer program because background is not licensed for benefit of the public (but is used defensively for benefit of a single company). Requires collateral IP (if identifiable) to be put “on hold”
- Impacts future sponsored research. One company’s background is another company’s reason to sponsor



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# Crawling Out of the Background Rights Dilemma

- Limit to inventions of named research team – not entire university
- Limit to “required” for commercialization of licensed inventions – not “useful” for commercialization of research results
- Limit to “extent university has right to license”
- Put time limitation on – e.g. inventions made one year after termination of research contract
- Require royalties to be paid; no consideration for royalty-free



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