Bench2Bedside (B2B) Outreach

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Special Thanks: Brandon Patterson, Technology Engagement Librarian, Spencer S. Eccles Health Sciences Library, b.patterson@utah.edu

Acknowledgements: Erika Church, TJ Ferrill, Peter Jones, Peter Kraus, Jeanne LeBer, Sarah LeMire, Mohammad Mirfakhrai, David Morrison, Timothy Pickett, Jacob Reed, Jean Shipman, Catherine Soehner, Spencer Walker, Erin Wimmer
## The Big Picture

<table>
<thead>
<tr>
<th>INSTITUTION</th>
<th># OF GRANTS</th>
<th>$ AMOUNT</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of Utah</td>
<td>2,905</td>
<td>$514,670,116</td>
</tr>
<tr>
<td>Utah State University</td>
<td>1,592</td>
<td>$263,331,073</td>
</tr>
<tr>
<td>Weber State University</td>
<td>133</td>
<td>$16,751,327</td>
</tr>
<tr>
<td>Southern Utah University</td>
<td>125</td>
<td>$11,169,447</td>
</tr>
<tr>
<td>Snow College</td>
<td>27</td>
<td>$1,459,656</td>
</tr>
<tr>
<td>Dixie State University</td>
<td>36</td>
<td>$2,093,423</td>
</tr>
<tr>
<td>Utah Valley University</td>
<td>63</td>
<td>$12,905,042</td>
</tr>
<tr>
<td>Salt Lake Community College</td>
<td>38</td>
<td>$5,606,392</td>
</tr>
<tr>
<td><strong>Total USHE</strong></td>
<td><strong>4,919</strong></td>
<td><strong>$827,986,476</strong></td>
</tr>
</tbody>
</table>
The quantity, quality and context of engaging industry has shifted significantly in the past decade.

- 380,000+ inventions disclosed…
- 80,000+ U.S. patent issued…
- To research institutions in the past 25 years

- 11,000+ Start-ups formed since 1995
- 70% of university licenses are to start-ups and small companies
- 200+ Drugs and vaccines developed through public-private partnerships since the Bayh-Dole Act enacted in 1980

Source: Association of University Technology Managers (AUTM), 2018
1980 Bayh-Dole Act: Innovation’s Golden Goose

“Possibly the most inspired piece of legislation to be enacted in America over the past half-century…it unlocked all the inventions and discoveries that had been made in laboratories throughout the United States with the help of taxpayers’ money…and helped reverse America’s precipitous slide into industrial irrelevance.”

—The Economist, 2002
http://www.utah.edu/innovate

Welcome to the Innovation Ecosystem

The innovation ecosystem at the University of Utah is like a mountain range. Numerous innovation centers, institutes and functions form individual mountain peaks, but they overlap through many collaborations to form a range. Learn about the U’s ecosystem partners. Read our reports and publications. Get involved.

GET CONNECTED

REPORTS & PUBLICATIONS

CAMPUSS NEWS
What is B2B?

Bench to Bedside

Mission and Values
<table>
<thead>
<tr>
<th>Event Name</th>
<th>Start</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kickoff Event</td>
<td>9/17</td>
<td>5:30 - 7:30</td>
<td>Child Hall, SFEBB</td>
</tr>
<tr>
<td>Healthcare Professional Pitch Night</td>
<td>9/25</td>
<td>6:00-9:00</td>
<td>Alumni Hall, HSEB</td>
</tr>
<tr>
<td>Team Orientation Night</td>
<td>10/15</td>
<td>5:30 - 7:30</td>
<td>CMI</td>
</tr>
<tr>
<td>Milestone Workshop #1</td>
<td>10/25</td>
<td>5:30 - 7:30</td>
<td>CMI</td>
</tr>
<tr>
<td>Milestone Workshop #2</td>
<td>11/7</td>
<td>5:30 - 7:30</td>
<td>CMI</td>
</tr>
<tr>
<td>Meet the Mentor Night</td>
<td>11/14</td>
<td>6:00 - 9:00</td>
<td>Tower at Rice-Eccles Stadium</td>
</tr>
<tr>
<td>Milestone Workshop #3</td>
<td>1/17</td>
<td>5:30 - 7:30</td>
<td>CMI</td>
</tr>
<tr>
<td>Saturday Milestone Review</td>
<td>1/19</td>
<td>10:00 - 4:00</td>
<td>CMI</td>
</tr>
<tr>
<td>Milestone Workshop #4</td>
<td>2/12</td>
<td>5:30 - 7:30</td>
<td>CMI</td>
</tr>
<tr>
<td>Pre-Competition Workshop I</td>
<td>2/27</td>
<td>5:30 - 7:30</td>
<td>CMI</td>
</tr>
<tr>
<td>Pre-Competition Workshop II</td>
<td>3/5</td>
<td>5:30 - 7:30</td>
<td>CMI</td>
</tr>
<tr>
<td>Competition Day</td>
<td>4/8</td>
<td>6:00 - 9:00</td>
<td>TBA</td>
</tr>
<tr>
<td>What Now? Workshop</td>
<td>4/16</td>
<td>5:30 - 7:30</td>
<td>CMI</td>
</tr>
</tbody>
</table>
• State-wide competition
  – BYU, USU, Weber, and high schools
• Scaffolded approach
• Access to University physicians
• Teams innovate over a seven-month period
• $500 development fund to build concepts.
B2B Outcomes

- To date, Bench-to-Bedside has engaged more than **1002 students**, created **229 medical devices**, filed **158 patents**, and launched **64 companies**
B2B Participant (Patrick Loftus)

One of the key components of any new invention is a thorough understanding of prior art and the intellectual property available to the inventor... as a participant in [B-2-B], [Dave Morrison, the patent and trademark librarian’s] knowledge and help were the fastest way to jumpstart our medical devices.
Libraries Innovation Team

• “To inspire, encourage, and support innovation centers and efforts at the University of Utah, to develop cross-library teams that support University innovation centers, and to provide resources, tools, and spaces to support innovation center personnel.”

• Email: Lib-innovation@lists.utah.edu

• Website: http://campusguides.lib.utah.edu/innovate
HERE FOR YOU

Brandon Patterson

As the Technology Engagement Librarian

I connect you to digital tools and emerging technologies. I create meaningful experiences using prototyping tools, virtual reality and online learning platforms.

Email: b.patterson@utah.edu
Room 28, 801-585-3563
HERE FOR YOU

Donna Baluchi

As the Public Services Supervisor

I'm available to advise on design, podium training, room reservation, tech help and everything inbetween.

✉️ donna.baluchi@utah.edu
📍 Room 113 ☎️ 801-587-3437
WHAT’S OUR EXPERTISE?

T.J. Ferrill

• 3D printing & scanning
• Materials Collection
• AR / VR equipment checkout and development

thomas.ferrill@utah.edu

Level 2, Marriott Library Knowledge Commons
WHAT’S OUR EXPERTISE?

Tallie Casucci

• Biomedical info
  (primary literature, data/stats, medical codes, etc.)
• Serious games
• Patents

[Image of Tallie Casucci]

tallie.casucci@utah.edu

Level 2, Marriott Library Room 2110
WHAT’S OUR EXPERTISE?

Alfred Mowdood

• Patents
• Science & Engineering Databases
• Business / market info
  (competitors, market size, financials, etc.)
• Industry standards

alfred.mowdood@utah.edu

Level 2, Marriott Library  Room 2110
WHAT’S OUR EXPERTISE?

Jacob Reed
• Programming (most languages)
• Software

jacob.reed@utah.edu

Marriott Library, Level 5
Free Consultations with B2B Teams

• In 2015, 11 out of 12 winning teams used the libraries.
• In 2016, 70% of winning teams worked with a librarian and 65% of all the teams.

“I wish I would have emailed the library sooner, they were so helpful!”
7 Business Databases

- IBISWorld Industry Research
- Factiva
- PitchBook
- Mergent Intellect
- PrivCo
- Business Source Premier
- Embase
6 STEM Databases

- Embase
- PubMed
- AHRQ HCUP
- Scopus
- IEEE Explore
- ASTM Compass
PATENT SEARCHING

7-Step U.S. Patent Search Strategy Guide

U.S. Patent Search Assistance at a PTRC
Patent and Trademark Resource Center (PTRC) library staff are available to provide training on U.S. patent search processes and research tools including PubWEST, PubEAST and the USPTO website’s PatFT and AppFT patent publication databases. For the PTRC nearest you, check www.uspto.gov/ptrc. For legal questions, contact an attorney or agent registered to practice before the USPTO. A listing is available at https://oedci.uspto.gov.

U.S. Patent Prior Art Search vs. Comprehensive Prior Art Search
This guide provides a 7-step strategy for searching U.S. patents and published patent applications to locate and evaluate relevant prior art, any previous publication that discloses an invention and would preclude issuance. A comprehensive prior art search would also include foreign patent publications and non-patent literature (newspapers, magazines, dissertations, conference proceedings, and websites). PTRC staff can also provide training on how to locate these additional resources.

Search Preparation and Documentation
Plan on spending a few hours learning the search process and additional hours for searching and evaluating results. The length of search time depends on the complexity of the invention. Careful recording of the search process (databases used, date and time of search, classes searched, and patents/published patent applications retrieved) is important.

US9808647B2
Methods and apparatus to inactivate infectious agents on a catheter residing in a body cavity

Assignee: Light Line Medical, Inc.
Inventors: Rhodes, Nathaniel L. R.; Bracken, Adam E.; De La Presa, Martin; Pourazad, Atrash F.; Coil, Ryan R.; Barnekow, Mitchell; Allen, James Preston

Status: Active
Estimated Expiration Date: 2036-05-20

Reason: 20 years from 2013-03-13 (file date) plus a term adjustment of 1164 days

Publish Date: 2017-11-07
Priority Date: 2012-04-05
Filing Date: 2013-03-13
Published As: US20130263888 A1, US2018003188 A1, US20180065099 A1
PTRC library representatives can:

- Demonstrate how to use search tools to conduct a patent or trademark search
- Show how to track current research by company, inventor, or nonprofit
- Offer classes on patents, trademarks, and intellectual property
- Offer assistance on how to do historical research on patents and trademarks
- Direct you to information and explain the application process and fee schedule
- Provide access to additional resources, such as PubEAST and PubWEST, the examiner-based search systems
- Help you find assignee information, pro bono programs, and much more

For more information contact:

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Librarian, Patent & Trademark Resource Center (PRTC) Representative
☎ 801-585-7125
✉ alfred.mowdood@utah.edu

Tallie Casucci
Assistant Librarian
☎ 801-581-8985
✉ tallie.casucci@utah.edu

Directions and Parking:
lib.utah.edu/info/directions
MATERIALS COLLECTION

• Touch materials before buying them. Located in the Marriott Library Knowledge Commons, Level 2
KNOWLEDGE COMMONS, LEVEL 2
ANATOMAGE TABLE

Visualize and interact with highly accurate human anatomy in digital 3D.

For more information: campusguides.lib.utah.edu/ehsitech

Available on the library main level
Gary L. Crocker Innovation & Design Lab
LIT Sessions

LASSONDE STUDIOS
Libraries Award  $2000
Spencer Madsen, 2016 Overall Winner
Further Reading


