September 2021

Selected Promising BYU Technologies

LIFE SCIENCES (Mike Alder, 801-422-3049, malder@byu.edu)

1. 2021-037: A method for Rapid Collection and Concentration of Bacteria from Blood – Bill Pitt
2. 2021-034: CADRE – A New DNA Tool to Fight Cancer – Dario Mizrachi
3. 2021-030: Cost-effective RNAase inhibitor Production – Brad Bundy
4. 2021-003: A PCR Real-Time Assay for Sepsis Causing Bacteria – Rich Robison
5. 2021-010: A Method to Inhibit Cancer Metastasis and Eradicate Tumors – Chris Mendoza and Dario Mizrachi
6. 2020-064: New Method for Evaluating Adhesion Proteins as Potential Drug Targets – Dario Mizrachi
7. 2020-056: 3D Cell Culture Device – Paul Van Ry
8. 2020-044: NKT Cell-Based Therapy for Sepsis – Paul Savage
9. 2020-039: Production of Hydrogen from Carbohydrates – Gary Watt
10. 2020-017: Process for Electric Power from Organic Waste – Zachary Aanderud
11. 2019-022: Salt Tolerant Microbes that Stimulate Plant Growth in Salty Soils – Brent Nielsen
12. 2019-015: Galactin-1 for Muscular Dystrophy Therapy – Pam Van Ry
13. 2019-006, 2014-098: Drugless Addiction Treatment and Biomarker for Addiction – Scott Steffensen
14. 2018-037: Bystander Phage Therapy; Inactivation of Bacteria Using Phages That Bind to Spores – Sandra Hope
15. 2018-014: Simplified DNA Extraction – Adam Wooley
16. 2018-002: Prosthetic Venous Valve – Anton Bowden
17. 2017-082, 2017-081, 2017-080: Origami-Inspired Spinal Implant Solutions – Larry Howell
18. 2017-072: Potential Drug for Opening Membranes – Dario Mizrachi
19. 2016-053: Biosensor for Specific Endocrine Disrupters – Brad Bundy
20. 2012-037: Neurodegenerative Disease Diagnostic – Bruce Brown
21. 2002-015: Cosmetic & Pharmaceutical Benefits for Equol – Eddie Lephart

SOFTWARE (Dave Brown, 801-422-4866, dave_brown@byu.edu)

1. 2020-049: Student Loan Debt Management Tool – Paul Conrad
2. 2018-027: A Three-stage Coding Approach to Physical-layer Security – Willie Harrison
3. 2017-054: Page Image Segmentation and In-place Character Recognition – Bill Barrett
4. 2017-029: Room-sized scanned-aperture holographic video display with low complexity – Daniel Smalley
5. 2015-035: Target Detection and Tracking System for Unmanned Air Vehicle (UAV) Platforms – Randy Beard
6. 2014-077: Princess Leia Hologram (Full-Color Freespace Volumetric Display with Occlusion) – Daniel Smalley
7. 2013-031, 2012-044: Stereo-Imaging Editing Effects – Bryan Morse

ENGINEERING (Spencer Rogers, 801-422-3676, srogers@byu.edu)

1. 2021-041: Method for Creating Metal Microchannels for Use in High Temperature Microfluidics – Rob Davis
2. 2021-035: Methods for Automating Measurement of Maize Stock Strength – Douglas Cook
3. 2021-031: Modified Apparatus for Measuring Chemical Properties – Vincent Wilding
4. 2020-061: Method for Improving Clinical Voice Assessments – Scott Thompson
5. 2020-022: Origami-Inspired Method for Adding Stability to Product Designs (ThUDS) – Larry Howell, Spencer Magleby
6. 2020-004, 2020-003, 2017-037, 2017-032: Origami Inspired Innovations for Diapers – Larry Howell, Spencer Magleby
7. 2019-055, 2019-027, 2019-012: 3D Printing Innovations – Nathan Crane, Scott Thompson
8. 2019-004, 2018-031: Origami-Inspired Retractable Arms/Propellers/Structures – Larry Howell, Spencer Magleby
9. 2018-047, 2018-046, 2018-045, 2013-054, 2013-053: Minimally Invasive Surgical Devices – Larry Howell
10. 2017-087: Mobile Rugged Solar Tracking System – Mike Searcy, Scott Ure
11. 2017-078, 2017-048: High Resolution Imaging Using Laser – Dallin Durfee
12. 2016-046: Inexpensive Thermal Microscope – Troy Munro
13. 2016-038: Method for Controlling the Structure of Crystalline Materials – Oliver Johnson
14. 2016-035: Method for Creating a Flexible Circuit Boards – Larry Howell
15. 2016-003, 2013-085: Origami-Inspired Method for Folding Thick Rigid Panels – Larry Howell
16. 2014-061: Non-Destructive Method for Detecting Strain in Metals – James Patterson
17. 2010-085, 2010-084: Power Tools (Impact Driver, Hammer Drill) – Chris Mattson

WORKING WITH BYU TECHNOLOGY TRANSFER

Why Work with BYU Technology Transfer

1. Secure rights to vetted technologies (many of which are leading edge)
2. Immediately create a barrier to entry and establish a unique competitive advantage
3. Acquire rights with minimal cash (we will often take equity in lieu of upfront license fees)
4. Gain access to, and mentoring from, seasoned professionals and commercialization experts

Why Professors Commercialize

1. Give the public access to BYU inventions
2. Gain access to industry resources through research funding and strategic collaboration
3. Generate supplementary personal income *(inventors receive up to 45% of licensing revenue received by BYU)*

What We Do

1. Protect BYU faculty-led inventions, primarily through patents
2. Commercialize BYU faculty-led inventions through sale or license
3. Support BYU faculty-led research by introducing potential research sponsors

THE BYU TECHNOLOGY TRANSFER LICENSING PROCESS

To get details on all our available technologies, visit our website (techtransfer.byu.edu) or contact a member of our staff by calling 801-422-6266. You may also email us directly as follows:

- **Life Sciences**: Mike Alder, 801-422-3049 (malder@byu.edu)
- **Software**: Dave Brown, 801-422-4866 (dave_brown@byu.edu)
- **Engineering**: Spencer Rogers, 801-422-3676 (srogers@byu.edu)

When you are serious about licensing one of our technologies, we will arrange a meeting with the inventors so you can evaluate the opportunity. Typically, these visits will occur over the phone or at BYU.

We seek to match the right licensee with the right technology. First-time entrepreneurs may be required to include a seasoned entrepreneur on their team. When a licensing match is found, we formalize it with the following:

OPTION Before licensing, you may want to enter into an exclusive option to permit further research and investigation. The length and other terms of such an option are negotiable. During the option period, BYU owns the technology but you have exclusive rights to negotiate a license or assignment.

TERM SHEET Once terms have been negotiated and agreed to, BYU will draft a non-binding, time-sensitive term sheet for your review.

LICENSE/ASSIGNMENT Once the term sheet has been reviewed and the parties have agreed, BYU will draft a complete license or assignment for your review and signature.

- **License:** BYU owns the technology but you have rights to commercialize or sublicense.
- **Sale / Assignment**: You own the technology.