Class of 2015 Purdue Startups

Purdue University had record-breaking commercialization activities for the second consecutive year with 25 startups based on Purdue intellectual property and another 15 startups based on innovations owned by faculty, staff and students.

Other increases in commercialization activities from FY14 to FY15 filed through the Purdue Research Foundation Office of Technology Commercialization and Purdue Foundry include:

- Global and U.S. patents issued: from 156 to 178 for a 14 percent increase.
- Invention disclosures filed: from 284 to 317 for a 12 percent increase.
- Licensing deals: 241 technologies licensed to 131 entities.

“It was certainly cause to celebrate last year’s record in commercialization activities, but to follow such an occurrence with another record-breaking year demonstrates that there is something bigger happening at Purdue,” said Purdue President Mitch Daniels. “These back-to-back increases represent a meaningful shift in the way Purdue’s outstanding faculty, staff and students are managing the commercialization of their innovations.”

Last year’s Purdue Startup Class of 2014 brought in more than $25 million in venture funding and created 75 new positions in Indiana this year.

A recent report by the National Academy of Inventors (NAI) and the Intellectual Property Owners Association (IPO), reported that Purdue is ranked 16th in the world among universities granted U.S. utility patents in 2014. This ranking in patent activity is up from the previous year’s spot of 27th. In 2014, Purdue had 93 U.S. utility patents issued.

“The entrepreneurial ecosystem at Purdue and around Indiana is growing every day with hundreds of people and partners working together to help entrepreneurs and innovators get their startups off the ground,” said Dan Hasler, president and chief entrepreneurial officer of the Purdue Research Foundation. “The resources that Purdue-affiliated startups can access are a tremendous help as well.”

For more information about available leadership positions, investing in a Purdue startup or licensing a Purdue innovation, visit PurdueFoundry.com.
Purdue IP-Licensed Startups

- AccuPS
- Adaptive RF Corp.
- AddiLat Inc.
- Ag TechInventures LLC
- Agsoil Analytics Inc.
- Akanocure Pharmaceuticals Inc.
- Anfiro
- Boilermaker Health Innovations Inc.
- Doclu LLC
- Emulatus LLC
- Ento Bio
- Environmental Concrete Products LLC
- GeniPhys LLC
- Hettich Imaging Technology LLC
- High Performance Imaging
- Imagine Medical Device Inc.
- Legacy Hardwoods LLC
- Prehensile Technologies LLC
- PURSPEC
- Qura Inc.
- Savran Technologies
- SmartGait LLC
- TeraDeep Inc.
- Titanium Laser Tech Inc.
- VinSense

FY 2015 Purdue Faculty-, Staff- or Student-owned Startups

- BioProcol
- Caktus Music Inc.
- Dunmo LLC
- Flocklife
- Gbox LLC
- General Solutions LLC
- Get Involved - Be the Change Inc.
- Guarders
- MirrorMirror LLC
- Tyler and Bailey Films LLC
- Scooter LLC
- Spotter LLC
- Tunr
- Uprint LLC
- Vortex
Adaptive RF Corp. co-founders Bob Kniskern and Todor Cooklev are commercializing advanced radio technology products and services. Currently looking for funding to start deploying equipment and offer services.
Ag TechInventures CEO Tom Christensen and COO Karen LeVert are commercializing a Purdue innovation that could improve the quality of genetically engineered crops, with a focus on alternative rubber. Ag TechInventures created the startup Edison Agrosciences to further develop the technology.

Currently seeking non-dilutive financing and venture financing for technology and company development, and is open for acquisition by leading agriculture companies.

www.agtechinventures.com
www.edisonagrosciences.com
AgSoil Analytics co-founders Phillip R. Owens and Jenette Ashtekar are commercializing a technology that could help farmers better understand the functionality of their soil and increase profits.

Working with farmers to create an original soil map.

www.agsoilanalytics.com
Akanocure Pharmaceuticals co-founders Sherine Abdelmawla, Mohammad Noshi and Philip L. Fuchs (not pictured) are commercializing an innovation that could improve cancer treatments by synthesizing and developing anti-cancer chemotherapeutic drugs derived from natural origins.

Working to partner with research groups for product development and clinical proof-of-principle.

www.akanocure.com
Anfiro CEO Jaime Mateus is commercializing a technology that could improve the membranes used in seawater desalination plants and industries like food and beverage, oil and gas, and pulp and paper.

Scaling up membrane manufacturing to develop elements that are suitable for pilot testing for commercial partners, and exploring partnerships and investment opportunities for further development.

www.anfiro.com
Boilermaker Health Innovations co-founders Timothy L. Ratliff and Philip Low have started the not-for-profit company to shepherd Purdue-discovered pharmaceutical compounds through clinical trials.

Currently seeking financial support to begin the self-sustaining process.
Emulatus founder Zygmunt Pizlo is commercializing a cognitive perception technology that helps robots see in 3-D like humans. This technology advances robotics research and could help automate interpretation of echocardiographic images and has other medical applications.

Seeking partners to advance use of visual perception technology.
Environmental Concrete Products president Paul Imbrock is commercializing a sealant for new and existing concrete used in industries like transportation and consumer products.

Currently partnering with an Indiana-based soy biofuel producer and testing derivative products and production methods.

econcreteproducts.com
GeniPhys founder Sherry Harbin is commercializing a technology referred to as the “building blocks for tissues” which could support generation of off-the-shelf tissues and medical implants that induce improved tissue regeneration.

Exploring strategic business partners or investors to increase manufacturing of medical grade collymers and other medical product lines.

www.geniphys.com
High Performance Imaging co-founders Charles Bouman, Sam Midkiff, Anand Raghunathan (not pictured) and Sherman Kisner (not pictured) are commercializing a new class of computational imaging systems that could form higher quality images at a lower cost.

Currently looking to work with scientific imaging professionals to explore the benefits of the technology.
Imagine Medical Device founder Kyle Hultgren is commercializing a syringe that could help diabetic patients and practitioners administer the dosing of highly concentrated insulin.

Currently pursuing a filing with regulatory authorities and seeking partnerships with funders and global medical device manufacturers.

www.imaginemeddevice.com
Legacy Hardwoods owner Aaron Forgey is commercializing improved varieties of hardwood trees that grow straighter and taller to produce high-quality veneer wood. Currently looking to increase seed and grafted clone production in the future.
Prehensile Technologies co-founders Brad Duerstock and Li Hwa Chong are commercializing a technology that could provide people with mobility challenges with an easy-to-use method to position or remove an iPad or other mobile device on a wheelchair.

Currently seeking industry partners to further develop its technology.
PURSPEC founder Zheng Ouyang and Purdue innovator R. Graham Cooks are commercializing a technology that could improve point-of-care diagnosis by reducing the time it takes to analyze samples via mass spectrometry.

Working with worldwide strategic partners to identify markets in the U.S. and China, establish financial resources and develop the product prototype.

www.purspec.co
Qura Inc. CEO and co-founder Doug Adams (not pictured) and co-founder Pedro Irazoqui are commercializing Purdue technologies that could make the diagnosis and management of chronic disease less expensive.

Building a working prototype and starting preclinical research, developing corporate partnerships to raise additional funding.
Cagri Savran, founder of Savran Technologies, is already commercializing an innovation to detect rare cells in a cancer patient’s blood stream and could improve the chances of survival and quality of life.

Seeking investment and partners to develop the technology for other applications.
SmartGait co-founders Shirley Rietdyk and Babak Ziaie are commercializing a technology that could aid health care officials in assessing a person’s risk of falling.

Currently collecting data from users before conducting beta tests.
Titanium Laser Tech co-founder Enrique Garza is commercializing a technology that could reduce manufacturing costs and speed the production of hard-to-machine materials like titanium.

Currently looking for industry partners, funding or investors to help with the construction of a prototype.

www.titaniumlaser.com
VinSense CEO Larry Ebert and co-founders Christian Butzke and David Ebert are commercializing a software platform that provides wineries and wine grape growers with more accurate soil and microclimate data for improved vineyard management and harvest decisions. This information can help growers reduce operational costs and improve crop uniformity, quantity and quality.

Currently conducting field tests at West Coast vineyards and reaching out to potential customers.

www.vinsense.net
AccuPS founder Byunghoo Jung is commercializing sensor technology that may improve virtual reality platforms for entertainment, education, robotics and other applications. Currently reaching out to established technology companies interested in sub-licensing the technology. www.accups.com

AddiLat Inc. is a Woburn, Mass.-based startup developing eco-friendly printed-electronics manufacturing technology and materials for touchscreen displays that enable production of patterned transparent-conducting electrodes and sensors with market-leading optical performance at 80 percent lower cost. Seeking collaborations with manufacturers and investors. For more information contact mmcgonigle@addilat.com

Ento Bio president Jeff Bargiel is commercializing technology that could benefit the forestry industry and the pulp and paper industry, and improve the process to create biofuels. Currently looking for investors and industry partners in the forestry, pulp and paper, and biofuels sectors.

Hettich Imaging Technology is commercializing a Purdue innovation of scattered laser light technology to quickly identify bacteria for applications in medicine, food safety and homeland security. The company is a subsidiary of the Germany-based Hettich Lab Technology. Seeking investors and collaborators. www.hettichlab.com

TeraDeep develops software and hardware to understand the content of images, videos and data. www.teradeep.com
FY 2015 Purdue Faculty-, Staff- or Student-owned Startups

Caktus Music Inc., a social music startup that developed an app that allows users to explore new music, share what they are listening to and connect with friends using an integrated music player.
- caktusmusic.com
- Joel Benson, 765-418-7218, joel@caktusmusic.com

Dunmo LLC, a technology startup that created an app that manages a person’s time by prioritizing and scheduling tasks into a daily agenda.
- dunmoapp.com
- Michael Goldman, 815-236-8052, contact@dunmoapp.com

Flock Life, a mobile technology company that provides an online community for patients with diabetes allowing them to connect, exchange experiences and access resources to improve their quality of life.
- www.flock.life
- Nick Race, nrace@purdue.edu

GBox, LLC, a technology company developing a percussive device that empowers percussionists to move freely, interact with audiences and other musicians and improves the ergonomics of playing percussion instruments.
- Greg Deason, gwdeason@prf.org

BioProcol, a skincare and beauty product company who is developing an all-natural face cream from native plant sources.
- bioprocol.com
- German Schafer, 201-313-6573, gschafer@bioprocol.com
- Michael Ladisch, 765-494-7022, ladisch@purdue.edu

Get Involved – Be the Change Inc., a startup that raises funds for nonprofits by designing scarves and selling them online.
- www.getinvolvedbethethechange.org
- Emily Mishler, 574-361-6203, emilymishler@gmail.com
Guarders, a company developing a Spandex® and cotton blend shape wear product that allows women to effortlessly carry necessities by utilizing inseam integrated pockets and garter style lines.
  >> Rachel Box, 317-674-5805, mguarders@gmail.com

MirrorMirror LLC, a startup that has created a monitor that shows relevant information such as news, weather, time and emails, to the user and acts like a traditional mirror.
  >> www.mirrormirror.glass
  >> Timothy Vincent, 978-234-7056, team@mirrormirror.glass

Scoooter, a centralized online bulletin board platform that connects students on college campuses who have common needs.
  >> www.scoooter.io
  >> Zixuan (Roy) Li, 812-606-8498

Tyler and Bailey Films LLC, a film company that specializes in wedding films, promotional work and music videos.
  >> www.tylerandbaileyfilms.com
  (Currently inactive)

Spotter LLC, a sports technology startup that is developing a device that tracks metrics for weightlifters and then communicates that information directly to a user’s mobile device.
  >> Daniel Golant, dgolant@purdue.edu

Tunr, a software startup developing a cloud music service that allows users to maintain ownership of their own music library and also enjoy the flexibility of a cloud-streaming service.
  >> www.tunr.io
  >> Hayden McAfee, 847-987-8434, hayden@tunr.io

UPrint LLC, a computer technology startup that has developed an app that helps users print documents from smartphones to selected printers on college campuses.
  >> www.uprint.io
  >> Joe Watkins, team@uprint.io

Vortex, a PC game design company that creates games that provide a universe experience with single player interactions.
  >> Joseph Landis, landisj@purdue.edu
The Purdue Foundry is an entrepreneurship and commercialization hub in Discovery Park’s Burton D. Morgan Center for Entrepreneurship whose professionals help Purdue innovators create startups. Managed by the Purdue Research Foundation, the Purdue Foundry received the 2014 Incubator Network of the Year from the National Business Incubation Association for its work in entrepreneurship. For more information about funding and investment opportunities in startups based on a Purdue innovation, contact the Purdue Foundry at foundry@prf.org

The Purdue Office of Technology Commercialization operates one of the most comprehensive technology transfer programs among leading research universities in the U.S. Services provided by this office support the economic development initiatives of Purdue University and benefit the university’s academic activities. The office is managed by the Purdue Research Foundation, a private, not-for-profit organization that serves Purdue University. For more information on licensing a Purdue innovation, contact the Office of Technology Commercialization at innovation@prf.org

Send correspondence to:
President and Chief Entrepreneurial Officer
Purdue Research Foundation
Herman and Heddy Kurz Purdue Technology Center
1281 Win Hentschel Blvd.
West Lafayette, IN 47906

Visit these Web sites for more information about the Purdue Research Foundation, the Office of Technology Commercialization, the Purdue Foundry and the Innovation and Entrepreneurship page:
» prf.org
» otc-prf.org
» purduefoundry.com
» innovation-entrepreneurship-purdue.com

A publication of the Purdue Research Foundation.