

Going Public

The journey to develop, protect and commercialize scientific discoveries begins the day researchers and scientists are hired.



Welcome to UCF Researcher starts in UCF lab

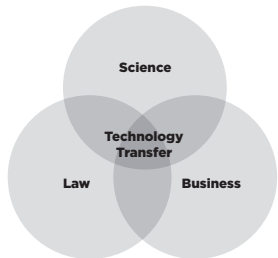
When new faculty arrive, they begin working with students, collaborating with other researchers and partnering with industry.

Quality Work Researcher applies for funding

Many researchers hit the ground running and soon reach out to federal, state and industry partners to fund their projects. The competition for funding is fierce.

The Office of Technology Transfer (OTT)

The OTT team brings UCF discoveries to the marketplace through intellectual property protection, marketing and licensing processes. The office connects UCF researchers and their innovations with companies and entrepreneurs to take the technology to market.



Types of Technologies Protected

Biofuels	Disease Detection
Bioimaging	Disease Therapies
Clean Technology	Nanotechnology
Computer Vision and Imaging	Optics and Lasers
Defense	Vaccines

Validation!

Research is funded

Because ideas are often evaluated on scientific and commercial value, it's particularly satisfying to receive funding. With funding, intensive research begins. Public and private funding agencies are getting to know UCF and the quality of its research.

Top 5 Funding Agencies

1. National Science Foundation
2. National Institutes of Health
3. Lockheed Martin Corp.
4. Florida Department of Education
5. U.S. Army Research, Development and Engineering Command

Based on amounts awarded during FY 2010-2012

Protect the Goods

Researcher submits invention disclosure

Once a scientist has solidified their hypothesis, made their discovery and is ready to publish their discovery, it's time to record and protect the intellectual property. The invention disclosure is reviewed by a team of experts at the OTT to assess the viability of a patent application and commercial potential.

RESEARCH

AVG. NUMBER OF DAYS FROM HIRE TO APPLY FOR FUNDING: 153

AVG. NUMBER OF DAYS FROM HIRE TO RECEIVING FUNDING: 233

AVG. NUMBER OF DAYS FROM APPLICATION TO RECEIVING FUNDING: 86

Success Stories

These projects are in the commercialization phase and hope to make the world a better place.

Detecting Cancer with Gold

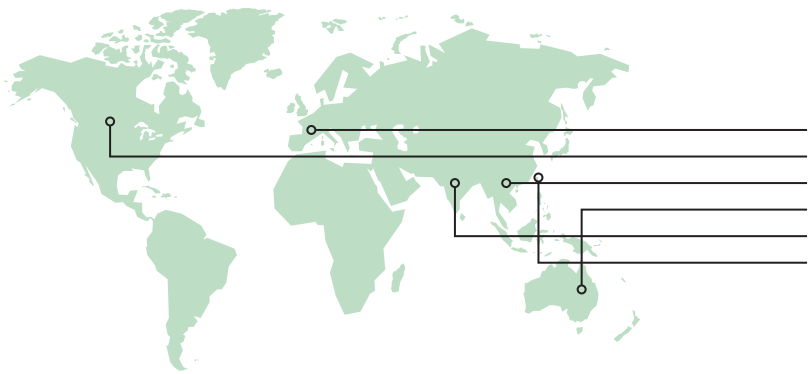
Nano Discovery Inc. is a medical research bioassay company founded by UCF Associate Professor Qun "Treen" Huo. Huo and her team developed a new technique involving gold nanoparticles to help detect cancer. She expects to commercialize this new technology to the biomedical research community in one to two years and to the diagnostic market in three to five years.

Stronger. Lighter. Cheaper.

Garmor Inc. has developed a cost-effective method of producing high-quality graphene for use in aircraft automobiles and construction. Common applications for the allotrope of carbon include high-strength plastics used for automotive bumpers and bed liners, boat hauls, bridge components and custom-molded parts. The graphene technology was developed by Richard Blair, assistant chemistry professor at UCF, and Ph.D. student **David Restrepo, '08**.

Hurry Up and Wait UCF submits patent application

It may take from 18 to 36 months to apply and receive the patent protection from the U.S. Patent Office or from other national and regional authorities.



Top International Patent Protection Filings

- European Union
- Canada
- China
- Australia
- India
- Taiwan

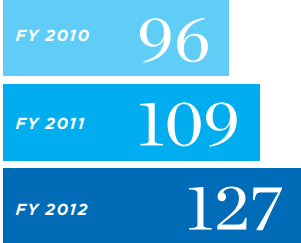
Big-time Patents UCF works with researcher on utility patent application

The OTT works with the researcher and patent attorneys to fulfill the U.S. nonprovisional patent application requirements. UCF may also file for international protection during this time.

Ticktock UCF submits provisional patent application

The scientist has one year to the day to further substantiate their innovation's claims and file a nonprovisional patent application.

Invention Disclosures Reviewed by OTT



IF APPROVED

PROTECT

60%
of UCF Patents
Granted

IF GRANTED

FY 2012

Proud Owner UCF Research Foundation

UCF now owns a U.S. issued patent and possibly, if elected, a patent granted by another national or regional authority. For products or methods that have strong commercial potential, UCF may invest up to \$100,000 to expedite market readiness.

Find a Good Match UCF promotes new innovation

The OTT reaches out to potential partners to detail how UCF's new product could increase revenue, reduce expenses and/or avoid future costs.



Did You Know?

Life science technologies typically have a longer sales cycle because the discoveries often need to undergo clinical trials.

Faculty are often considered the best salespeople for their own technology.



Patents Available for Licensing

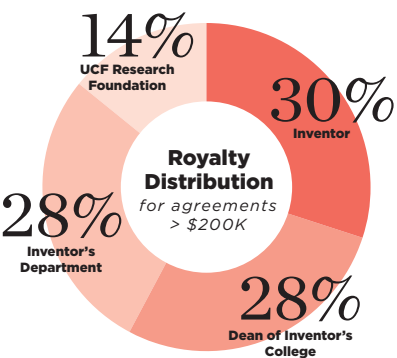
as of June 2013

License to Thrive A license agreement is reached

UCF authorizes a licensee who may be a research sponsor, an industry partner, a government agency or a venture capital firm to use its intellectual property. Researchers may also launch their own spinout company and execute a license.

Return on Innovation Revenue is generated

License fees and royalties accrue when the innovation enters the marketplace. Companies grow, hire students, sell products and sponsor research. What started as an idea is now impacting the economy and UCF.



Built to Last Product goes to market

The industry partner must now design, develop and deliver the product.



Licenses Executed

FY 2012

Licenses Executed by Academic Unit

- | | |
|---|---------------------------------------------|
| 3 | College of Engineering and Computer Science |
| 2 | College of Optics and Photonics |
| 2 | College of Sciences |
| 1 | The Burnett School of Biomedical Sciences |
| 1 | Florida Solar Energy Center |
| 1 | Institute for Simulation and Training |
| 1 | NanoScience Technology Center |

FY 2012

Licenses Executed to Spinouts

48%

FY 2012

COMMERCIALIZE

SOLD: 1.8 MILLION ENERGY-EFFICIENT CEILING FANS USING RESEARCHER DANNY PARKER'S INNOVATION

SOURCE: UCF OFFICE OF RESEARCH AND COMMERCIALIZATION