

PIONEER.
THE.
FUTURE.



INNOVATION
INCUBATION
CENTER



Empowering Breakthroughs Reach Society.

since 2012 at TU Wien

We create tomorrow's high performers by instilling an entrepreneurial mindset among TU Wien students and scientists. We teach them to challenge conventional thinking and equipping them with the ability to be adaptable, flexible, creative, resourceful and innovative. With the ability to challenge conventional thinking, technical students and scientists make the perfect pioneers and founders to bring research developed at TU Wien to society.



TECHNOLOGY FOR PEOPLE.



INSPIRE

We facilitate entrepreneurial spirit
at TU Wien



EDUCATE

We offer top quality education and
coaching for acquiring
entrepreneurial competences



INNOVATE

We support innovative founder
teams along the whole value chain
– from **ideation** to
implementation to **market entry**



CONNECT

We ensure the framework needed
and access to the essential
network



EDUCATE



INSPIRE



Mission

DEVELOP AN ENTREPRENEURIAL MINDSET.

Equip students and scientists with the ability to be adaptable, flexible, creative, resourceful and innovative



- Challenge conventional thinking
- See connections where others do not
- Focus on the greater goal
- Dynamically adjust to rapid changes in the ecosystem



- Understand the value of teams
- Learn from setbacks
- Develop a sense of self
- Communicate effectively



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EDUCATE



INSPIRE



EDUCATION ON INTRA-& ENTREPRENEURSHIP for students

EXTENDED STUDY ON INNOVATION

The Extended Study on Innovation is an international curriculum providing a premium, hands-on education on intra- und entrepreneurship for students of TU Wien. It's not only fostering innovative thinking but offering a solid education for entrepreneurial spirits, business developers and/or innovation managers. This additional education will not only enhance your job prospect in research and industry but also prepare you for an entrepreneurial life. Students will graduate with Extended Study on Innovation.

The Extended Study on Innovation is offered in parallel to the study programs of TU Wien. Only a limited number of students will be accepted for the curriculum, enabling them to individually apply the content learned to their specific, personal projects. Students have to apply according to a pre-defined application process.





EDUCATE



INSPIRE

EDUCATION ON INTRA- & ENTREPRENEURSHIP for scientists



ENTREPRENEURSHIP FOR SCIENTISTS

This workshop series is targeting scientists who would like to enrich or develop a personal entrepreneurial skillset & business competencies, know more about opportunities how to navigate innovations from „the lab“ to society, or who would simply like to engage in entrepreneurial thinking. These workshops are free of charge to scientists from all faculties and institutes of TU Wien.

ENGINES OF INNOVATION

A format that offers workshops to scientists who are seeking to broaden their horizons in the field of innovation and healthy high performance. These workshops are free of charge to scientists from all faculties and institutes of TU Wien





PROGRAMS FOR SCIENTISTS.

01
Option

PHD COURSES Innovation management From innovation to product

High performer skillset building

02
Option

ADVISORY & ON-REQUEST MENTORING Spinning-off @ TU Wien

Coaching on spinning-off, business modeling and business strategy

03
Option

TECHNOLOGY LEVERAGING Finding application fields for breakthrough innovations

Market analysis, validation and product development

04
Option

i²c STARTacademy Assessing the market potential of innovations

Business modelling, market validation and go-to-market strategy

05
Option

I²c AWARD Scholarship granted to Ph.D.s with a high potential research result

Offers Ph.D. graduates an alternative career path and the opportunity to focus on the commercialization of their Ph.D. result with a basic monthly income for 5 months

06
Option

TUW i²ncubator Empowering innovations to reach society

Helping TUW breakthroughs navigate from POC to MVP to Market Entry



INNOVATE

Pioneer.

The.

Future.

i²c STARTacademy

bringing research from the lab to society

Oberflächenglättung

Werkstoff:
X3CrNiMo 13 4 (1.4313)

IFT Institut für Fertigungstechnik und
Hochleistungslasertechnik

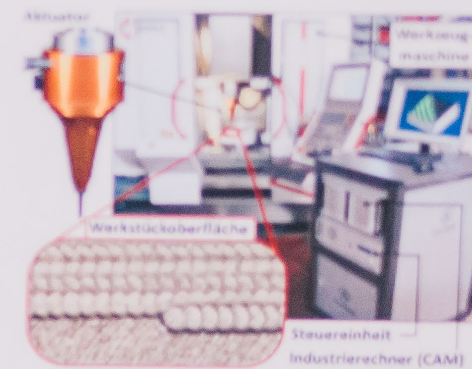


DIP - Aktivator

Dynamic Impact Peening

Funktionalisierte Oberflächen

Die funktionelle Leistungsfähigkeit eines Bauteils richtet sich nach den Eigenschaften seiner Oberfläche sowie der oberflächennahen Grenzschicht. Durch eine zielgerichtete technologische Einflussung dieser Eigenschaften kann beispielsweise die Lebensdauer, die Verschleiß-, Korrosions- und Ermüdungsbeständigkeit sowie statische und mechanische Festigkeit erreicht werden. Aus diesem Grund widmet sich das Institut für Fertigungstechnik und Hochleistungslasertechnik seit einigen Jahren einer innovativen Technologie der Oberflächenbehandlung: dem maschinellen Oberflächenhämmern beziehungsweise Machine Hammer Peening.



Machine Hammer Peening (MHP) Technologie

Im Rahmen der MHP Oberflächenbehandlung wird durch ein elektromagnetisches Aktuatorsystem ein Werkzeug mit zumeist kugelförmiger Hartmetallspitze in eine oszillierende Bewegung von bis zu 500Hz versetzt. Der Aktuator wird in einer Werkzeugmaschine beziehungsweise auf einem Roboter gespannt und durch diese CNC-



TECHNISCHE
UNIVERSITÄT
WIEN
Vienna University of Technology



63 Teams

145 participants

41 Spin-offs

founded & in founding

65+

mentors and trainers

**I AM A
FALLING
WALLS
FINALIST**



**European
Enterprise Promotion
Awards**

**PIONEER.
THE.
FUTURE.**

embrace the opportunity
i²c STARTacademy





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INNOVATE



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TUW i²ncubator.

an overview

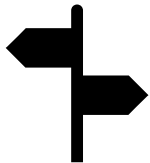


**23 ALUMNI
SPIN-OFFS**

2016-2022



**11 AIR
12 AIR on Request
90+ Mentors & Lecturers**



34+ PRODUCTS

brought to society



39+ Mio.

raised in 2020 and 2021



**27 AWARDS &
NOMINATIONS**

received in 2021



**210+
EMPLOYMENT
PLACES**



35,361+

cups of coffee

TUW i²ncubator.

personalized support

Invisible-Light Labs

Invisible-Light Labs enables you to achieve new paradigms by allowing you to detect infrared and terahertz radiation at room temperature with our ultra sensitive nanomechanical resonators.

Applications include improved disease understanding, better drugs,increased safety and more efficient protection of the environment.



APPLICATIONS

The IR to THz region of the electromagnetic spectrum hosts a wealth of intriguing interactions between radiation and matter. The ability to obtain IR/THz molecular fingerprints with high sensitivity at room temperature is of particular interest for a wide range of applications such as pharmaceuticals, fundamental research, food & agriculture, environmental monitoring, security and materials.

Explore a world of possibilities with unprecedented sensitivity using our stand-alone room temperature infrared and terahertz detectors.



We develop smart wings, which sense the turbulence of the environment and react by adapting their shape.



Health without needles

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[ABOUT US](#)
[CONTACT](#)

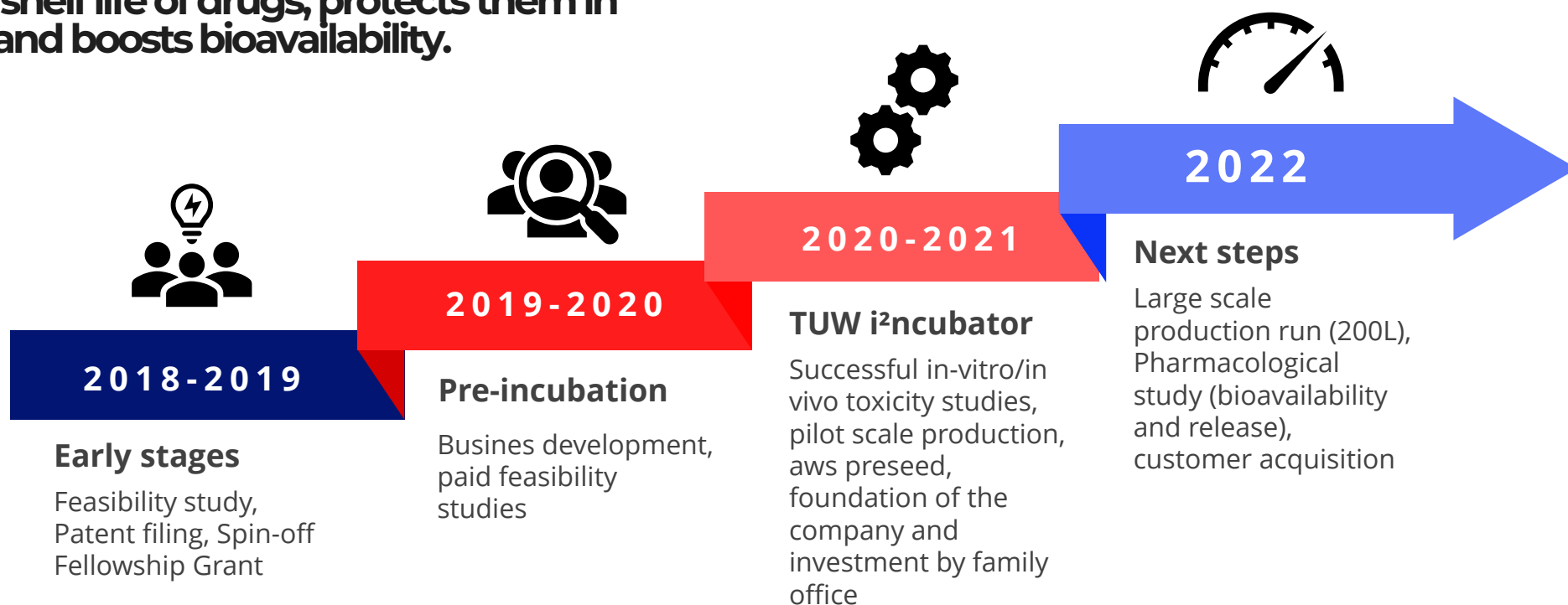


We Replace Injections With Pills

Join our Mission to provide health without needles

SUBSCRIBE TO OUR NEWSLETTER

NovoArc uses a patented technology to replace injections with pills and enables the oral delivery of drugs by encapsulating them in special, highly stable lipids. This novel, biological coating increases the shelf life of drugs, protects them in the stomach and boosts bioavailability.





Lignovations.

Accelerating the transition to a sustainable technology

Solution

Manufactured from biomass, our Colloidal Lignin Particles are a natural alternative to conventional chemical ingredients that can improve end products in a variety of applications.

Applications

- Cosmetics
- Coatings & Paints
- Packaging
- And more...

Functionalities

- UV Protection
- Antioxidant
- Emulsifier
- Antimicrobial

Velaex Technologies.

Chemistry inside our bodies

Solution

Overcome the poor selectivity of conventional cancer chemotherapeutics by improving the site-specificity and especially the safety of those drugs.

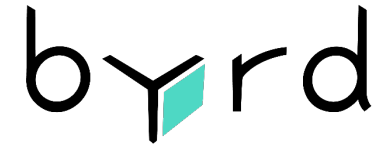
Precisely deliver and activate drugs **only** at the site of disease by exploiting controllable in vivo chemical reactions. Based on unique molecular designs, Velaex Technologies developed superior chemical tools that elevated the standards for the field outperforming current state-of-the-art tools by several orders of magnitude regarding the speed and pharmacokinetic efficiency



INNOVATE

TUW i²ncubator.

Alumni start-ups & spin-offs



18 **CONTEXTFLOW** (28)

MEDIZINISCHE ANALYSE. Dass die zwei großen Radiologenkongresse in Chicago und Wien ausfielen, hat den Vertrieb des Wiener Start-ups, das mit Hilfe von künstlicher Intelligenz und einer 3D-Bildsuchmaschine Lungen-CTs auswertet und damit die Arbeit von Radiologen gerade jetzt unterstützt, erschwert. In Italien konnten hingegen gerade wegen Corona Deals in Rekordzeit abgeschlossen werden. Eine Finanzierungsrunde im März und eine EU-Förderung ermöglichten eine Teamvergrößerung auf 23 Mitarbeiter und erste Installationen in den USA.

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56
PREWAVE
Risikowarn-
system für
Lieferketten

NEU!

21 **BYRD** (34)

LOGISTIK. Die Corona-Krise verleiht Byrd, der die Versandlogistik für E-Commerce-Anbieter übernimmt, neuen Auftrieb. Zudem gab es eine Investmentrunde in der Höhe von fünf Millionen Euro. Neben Venture-Fonds Rider Global kamen Venture Friends und FJ Labs neu dazu. Auch Speedinvest, Hermann Hauser und Reflex Capital zogen mit.

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TOP 100 BEST AUSTRIAN START-UPS.

MEET THE DOERS & BUILDERS.

We provide TU Wien scientists and students with the infrastructure, focus and guidance needed to understand what it takes to implement their research and ideas into new products and services – and bring them to the society.



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