BENEFiT

+ Health Innovation Fellowship

KU LEUVEN TU Delft Erasmus MC Zafung eit Health

Funded by the European Union

BENEFIT innovation fellowship

We train

BENEFIT brings together talents in engineering, medicine, design and business to co-create innovative solutions in healthcare. This novel one-year postgraduate fellowship is organised in Belgium and the Netherlands.

The intensive training programme builds on the knowledge, creativity and team spirit of the fellows.

The entire programme is offered free of charge, without tuition fee. Fellows are neither subjected to examinations nor do they receive credits.

We create

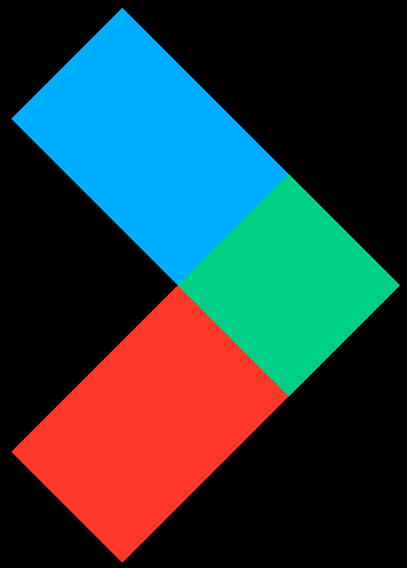
Working from needs in real clinical settings the teams develop health solutions that have a real impact on health. Methodological observations, need-filtering and market validation ensures a solution with a very high probability to reach the market.

We coach

The fellowship is an accelerator for initiating, redirecting, or boosting a career in healthtech innovation. Your personal development is supported and evaluated throughout the programme. The teams are coached weekly on the process by experts from the relevant fields.

We connect

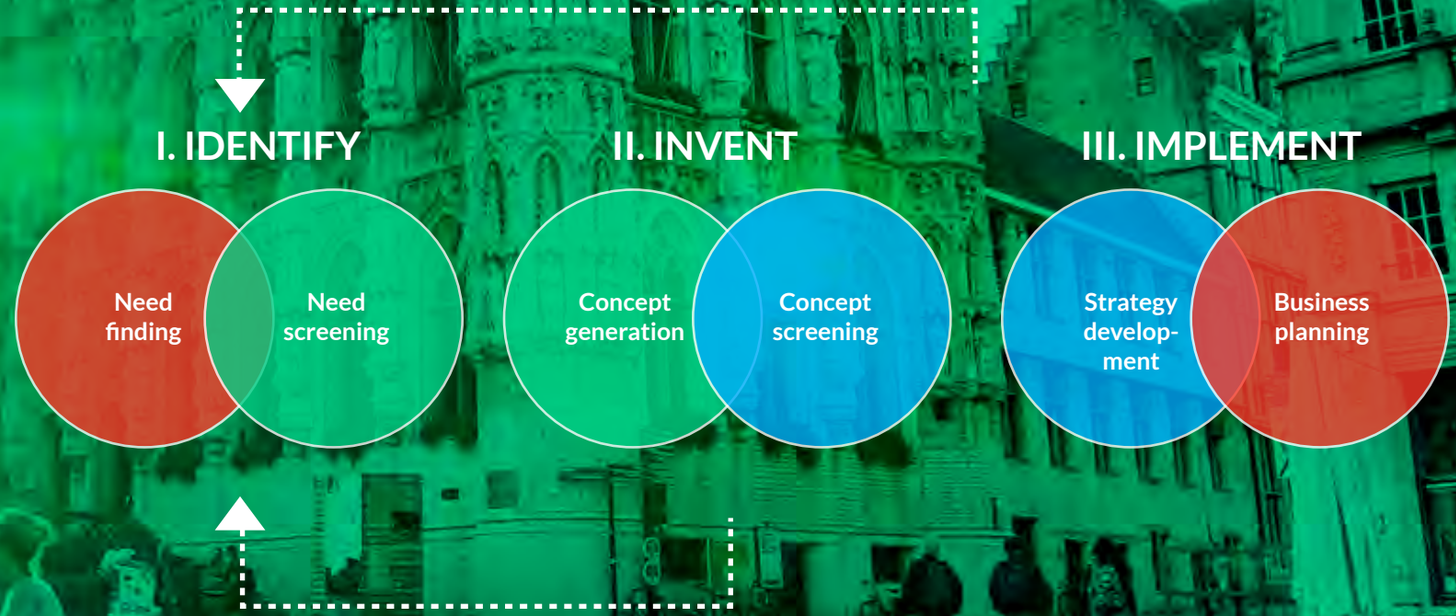
BENEFIT Fellows are connected to the local network of stakeholders and potential partners, and get access to a European network through our fellowship network as well. In addition, BENEFIT Fellows become part of the Stanford BioDesign community, which is a life-long, worldwide network of innovators passionate about improving healthcare.



BioDesign

Need-led health innovation

We strongly believe that true impact is created when innovations are developed in co-creation and led by needs rather than solutions. The BENEFIT programme trains fellows through activities that follow three key phases of BioDesign: Identify, Invent and Implement. BioDesign provides us with a methodology that steers your innovation process towards real impact. This need-led innovation methodology has proven to be successful for many years and has grown a worldwide community of BioDesign professionals.



Biodesign innovation process

PHASE I - IDENTIFY

The identify phase is first and foremost about finding important unmet health needs. By directly observing the full cycle of care, the teams discover problems and opportunities, while asking pointed questions that challenge the status quo.
During this first-hand observation period, it's ideal to collect hundreds of needs, initially without judging or prioritizing. Following an intense and iterative process, the teams arrive at the two or three most promising needs which—if they can be solved—will have major impact on health and wellness.

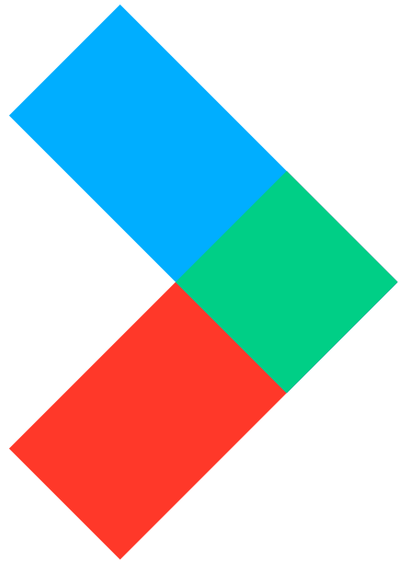
PHASE II INVENT

Next, the teams start to invent, brainstorming hundreds of potential solutions for each of their top needs.
The teams create rough prototypes in a rapid "think-build-rethink" sequence, so failures emerge early and iteration can lead to better solutions.
They then filter the surviving solutions by researching everything from intellectual property issues and business models to reimbursement and regulatory pathways. In the end, the process produces a lead concept has the best chance of actually reaching and improving patient care.

PHASE III IMPLEMENT

In the implement phase, the teams take the next steps in prototyping and testing their technology, developing their approach to patenting, regulatory approval, and reimbursement, charting the market potential for the innovation, and exploring sources of funding. To help them, they will be supported by industry mentors with deep business knowledge and experience who know the health technology sector inside and out.

Source: Stanford's BioDesign



What former fellows say

"Just imagine the setting: fellows who have never met or worked together before, with different backgrounds and personalities, are put together in a team that needs to operate in an out-of-the-box entrepreneurial-like manner in a completely new and unusual environment such as a health-care setting for almost a year, working closely together with each other, healthcare professionals and patients on daily basis. I was challenged to think out-of-the-box and learnt a lot about the different design-thinking tools and methods, from needs observation to needs formulation to concept develop-ment and prototyping.

At the end of the programme, I left the field I was working in at that time and stepped into the healthcare area, which was like an eye-opener to me with its many opportunities to work on real health- and healthcare challenges that matter to us all. Participating in the Fellowship programme did change my life - both personally and profes-sionally - in many ways I could not have imagined beforehand".

Akvile Zalatoryte

Alumna of the Clinical Innovation Fellowships programme in Stockholm

"It has been an all-round unforgettable experience!"

Curriculum 2021-2022

Programme

0. Introduction week
Starts 13 Sept 2021

1. Biodesign Bootcamp
Sept-Oct 2021 (3 wks)

2. Phase I - Identify
Oct-Dec 2021 (10 wks)

3. Phase II - Invent
Jan-Mar 2022 (12 wks)

4. Phase III - Implement
Apr-May 2022 (8 wks)

5. Graduation
June 2022

Teams
In the programme of 2021-2022 two teams will run in parallel in Belgium and the Netherlands. Teams of 4 members will be created based on fellows' profiles, complementary expertise and skills.

Clinical observations
For the clinical observation in 2021-2022 the teams are hosted in parallel by UZ Leuven and Erasmus MC in Rotterdam.

Language
The programme is taught in English. Dutch is used for patient interaction.

Costs & commitment
The programme is offered free of charge to the selected fellows. The partners do require a signed commitment to complete the programme. Reimbursement for prototyping and other project-related costs are to be discussed with the programme leaders.

Covid-19
The programme is designed to deal with the realities of the coronavirus crisis and we will update the website as more information becomes available.

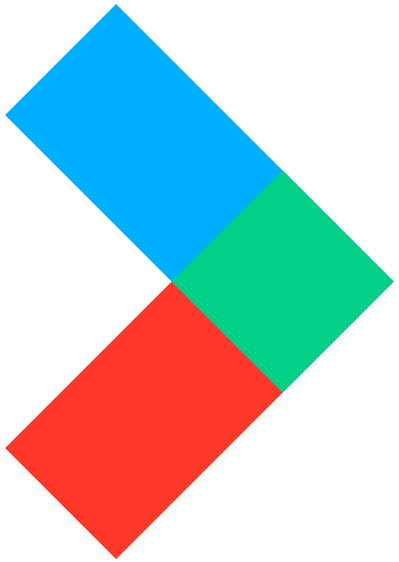
Locations
The programme is offered in a hybrid format, alternating between online and on-site activities. Fellows are required to be available on weekdays (either in the Netherlands or in Belgium) during the entire programme.

Application
Candidates can apply via the application form on the website: www.benefit-fellowship.eu

Application deadline: 26 May 2021

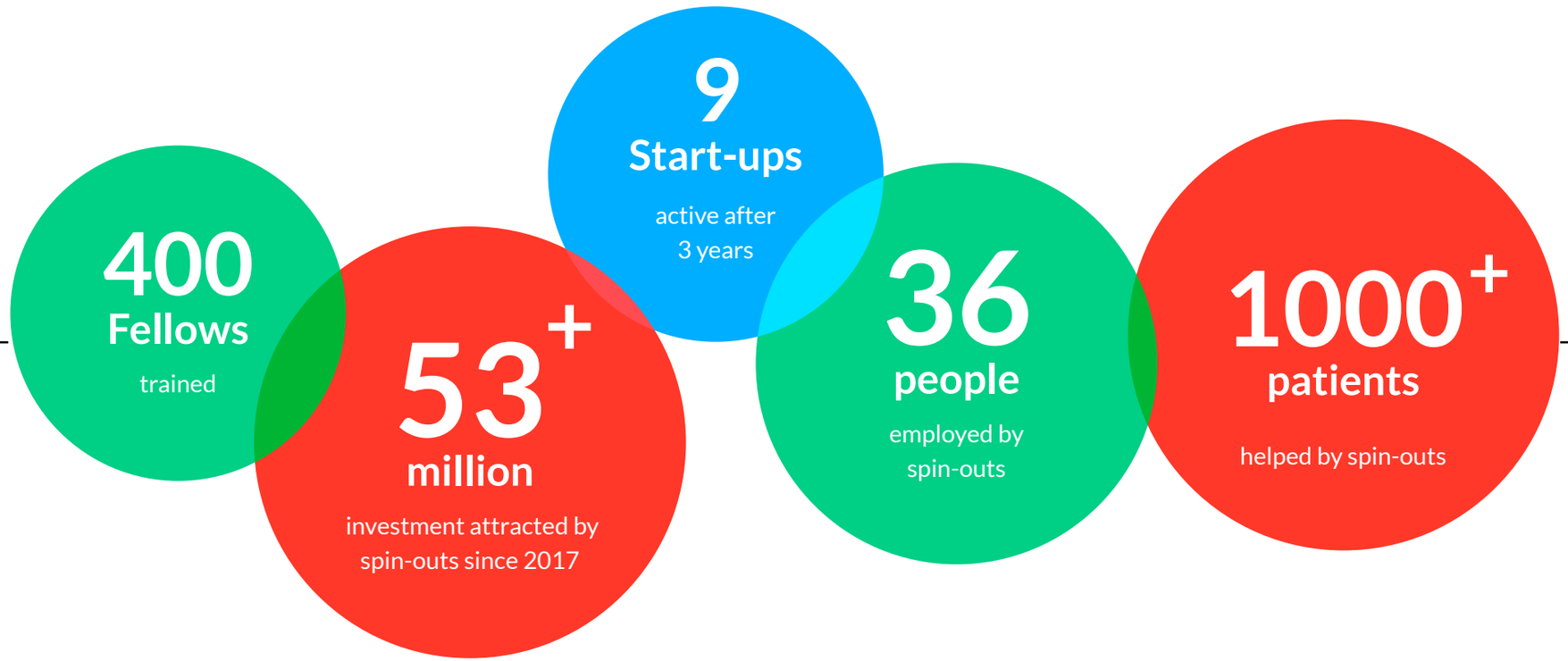
Eight reasons to join

- Trained at top notch institutions
- BioDesign Innovation training
- Coaching by experts from the field
- Create real impact in health
- Build global connections
- Expand your carreer opportunities
- Work in a real clinical setting
- Highly skilled multidisciplinary team



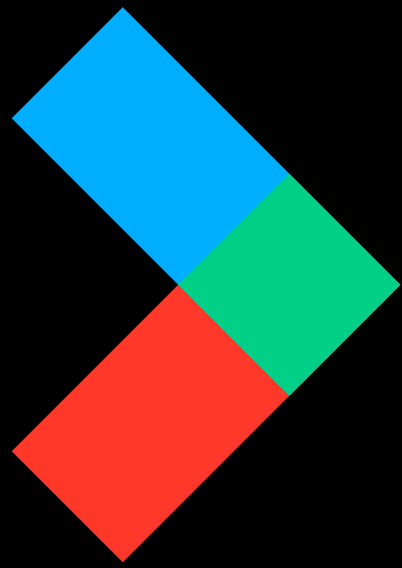
EIT Health Fellowships

Some successes by spinouts and programmes from our European Fellowship network since 2017



“The belief that innovation is a process that can be learned, practiced, and perfected. It’s hard work, takes lots of time, and requires multidisciplinary teamwork, but it’s not magic”

Stanford’s BioDesign



Your education leaders

The innovator

Maarten De Vos

Prof. dr. Maarten De Vos is an Associate Professor at KU Leuven, Belgium, through a joint appointment at the Faculty of Engineering Science - in the Department of Electrical Engineering (ESAT) - and at the Faculty of Medicine - in the Department of Development and Regeneration.

After the successful completion of the Biodesign faculty training at Stanford University (USA) in 2015, he founded and directed the Oxford Biodesign programme.

He has a strong interest in translational research and consults for different digital health and medical innovation companies. His pioneering research in the field of mobile real-life brain-monitoring led to the formation of *mBrainTrain*, which he supported with scientific advice and which has won several prizes for their mobile EEG innovation. He also co-founded *Circadian Therapeutics*, an Oxford University spin-out aiming to revolutionise circadian measurement and modulation by developing products that target serious diseases associated with circadian rhythm disruption.

The designer

Armagan Albayrak

Dr. ir. Armaĝan Albayrak is a senior staff member from the Faculty of Industrial Design Engineering (IDE) at Delft University of Technology (TU Delft). Her expertise is in design research, human factors & ergonomics and complex multi-user interactions in healthcare.

Armaĝan studied industrial design engineering at IDE and did her PhD in collaboration with Erasmus Medical Centre. Since 2007, she has been working as an assistant professor at the Department of Human-Centered Design.

As the coordinator of the Medisign spezialisation, she is actively involved in the research and education programme of IDE in the field of healthcare. The aim of the Medisign specialization is to educate dedicated and skilled design engineers in the field of healthcare in order to develop products, services and systems that meet the needs and expectations of healthcare professionals, patients and informal caregivers.
Armaĝan is involved in the supervision of PhD candidates, students in different master courses & graduation projects and as a researcher in various research projects.

Ready to join!

Joining this programme will give you a start as a successful innovator in healthcare. You will be able to lead innovation processes and involve stakeholders on all levels of the organisation.
As an alumnus of this fellowship you will enter a network of top notch industrial, clinical and academic partners.

Application

Applicants are requested to follow the instructions posted on our website.

Selection process
Submitted applications undergo an eligibility check.
As part of the first selection, some candidates are invited for an interview based on the evaluation of their CV and motivation letter. The final selection will be communicated within two weeks.

Application timeline 2021-2022
Announcement: 19 April
Deadline: 26 May
Pre-selection: by 4 June
Interviews: 10 June
Final selection: 17 June
Start programme: 13 September

Who we are looking for

Candidates are highly motivated to make a change in the future of healthcare and willing to found a start-up or create a business solution by the end of the programme. Furthermore, candidates preferably have professional experience with innovation projects, excellent communication and collaboration skills and a proven track record of teamwork.

Requirements
Eligible candidates:

- Have relevant a background, especially in medicine, business, engineering or design
- Have a MSc degree or a BSc degree with professional experience
- Demonstrate entrepreneurial aspirations
- Are available onsite on a full-time basis during the programme
- Speak English fluently and understand Dutch
- Proven track record of teamwork

About us

Contact

Program Coordination
Inge De Prins, KU Leuven
Puck van de Bovenkamp, TU Delft

Website
www.benefit-fellowship.eu

E-mail
Benefitfellowship@gmail.com

Linkedin
www.linkedin.com/company/benefit-fellowship/

Your hosts

TU Delft
Delft university of technology is the home of outstanding engineering and design research and education programmes. Ranked 15th worldwide in the QS ranking on engineering and technology, TU Delft leads a strong position in health technology research and innovation.

Erasmus MC
Erasmus MC is the largest and one of the most authoritatieve scientific University Medical Centers in Europe. It is committed to a healthy population and excellence in healthcare through research and education.

KU Leuven
A renowned institution for research and education as well as superb clinical care thanks to its JCI-accredited University Hospitals Leuven (UZ Leuven).
Ranks among the top 50 universities worldwide and Europe's most innovative according to Reuters.

Funded by the European Union

BENEFiT

Embark on new career adventures!

Information session for future fellows

21 April 2021, 19:00 CET

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