



ENABLING SUSTAINABLE AND PERSONALISED HEALTH BY MEANS OF TECHNOLOGY

UNIVERSITY
OF TWENTE. | TECHMED
CENTRE

UNIVERSITY OF TWENTE – TECHMED CENTRE

- Improving University of Twente's impact in Healthcare
- UT-wide coordination & alignment of (strategic) activities (education, research, innovation) in the healthcare domain
- Stimulation of interfaculty collaboration
- Organising/orchestrating the (internal and external) innovation ecosystems
- Shared infrastructure
- Providing discipline-specific research support



SUPPORT ACTIVITIES

Business Development Support

Improving impact by the development of programs and attracting additional funding, ecosystem development, finding the right partners and stimulating dissemination.



Research Support

Facilitating researchers across the university with specific research support activities for running research projects and supporting compliancy discussions in areas such as human subjects research, regulatory support, animal research and shared facilities.



General Support

Improved communication and impactful marketing initiatives, such as events and news articles, within TechMed Centre foster collaboration and showcase accomplishments in the healthcare sector. This encourages stakeholder involvement and generates interest and collaborative ventures, thereby fueling innovation in healthcare research.

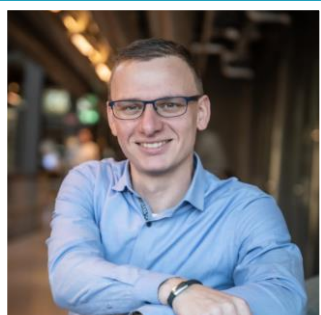


Strategic programs, Seed Funds (on 'General Support' slide) and Strategic Consortia

The TechMed Centre leads strategic initiatives like impact programs and seed funds in collaboration with faculties and research domains. These efforts form an integrated Health Impact Portfolio, funded by the UT's central budget, faculties, or external sources. Furthermore, UT partners with external stakeholders to enhance the socioeconomic impact of its research.



BUSINESS DEVELOPMENT SUPPORT *



Business Partnerships & Business Development

MedTech research projects require collaboration with industry partners for impact. Co-funding (in-kind or cash) from private organizations demonstrates market potential. Leveraging industry experience can accelerate research and attract future users, requiring a distinct approach from traditional scientific involvement.

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Healthcare Partnerships

The TechMed Centre partners with Dutch University Medical Centres and other healthcare institutions, facilitating clinical internships and research overseen by UT staff. Over 40 dual scientific positions exist, with formal collaborations with esteemed organisations like Radboudumc and specialized hospitals.

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Societal impact & Partnerships

Our mission is to impact society with innovations and promote sustainable, personalized healthcare. We prioritize involving societal perspectives as funding bodies require active participation of end-users in research. With a shift towards self-management and prevention, patients and healthy citizens are key end-users. Yet, involving diverse end-user groups in research design demands acquiring new skills and networks.

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Grant support

Are you looking for funding for your research idea? At TechMed we can help you search for the right funding opportunity within the health and (technical) medical domain and support you with your grant application. We assist in setting up a good funding strategy, finding the right partners and supporting you in your search for the next grant, in collaboration with SBD.

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Life Long Learning

The TechMed Academy offers education for professionals (Life Long Learning) in the use or development of technology in healthcare. We always work in co-creation integrating your scientific expertise with the clinical expertise from the target group, our medical-technical expertise and our experience with education for professionals.

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* Each project is organized in its own way. We offer support in various areas, but do consider the overarching nature of different tasks/aspects. Therefore, these may not always be attributed to a single service. We thus serve as a point of contact and coordinate closely with other TechMed Centre / UT colleagues and external parties.

TECHMED RESEARCH SUPPORT *



Human Subjects Research

Human subjects research necessitates adherence to regulations like Good Clinical Practice (GCP), the Dutch WMO, and Medical Device Regulation (MDR). In health research, particularly with vulnerable subjects, meticulous study planning and execution are vital. Ethical review is mandatory before initiating any human subjects study.

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Animal Research

Health research is crucial for advancing medical knowledge and treatments. Responsible use of animal experiments aids in understanding human responses to new therapies or technologies, benefiting disease prevention, diagnosis, and treatment. Small animal research is conducted when no alternatives are viable.

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Regulatory support

The production and sale of medical devices are governed by regulations like MDR and IVDR, while medical technology research may also fall under WMO. The choice of research question and technology use influences applicable regulations and paperwork. Careful research planning enhances flexibility, reduces risks, and facilitates integration into medical practice.

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Shared Facilities / Research Infrastructure

Do you want to use the TechMed Centre's outstanding research infrastructure, or are you looking for support in attracting third party users to your facility? We can support your research project, provide training to use our facilities and share our expertise with you.

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Implementation support

Early consideration of implementation challenges is crucial for preparing technology to make a societal impact and secure funding. Our support spans all project stages and Technology Readiness Levels, ensuring practical assistance from inception to completion.

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GENERAL SUPPORT *



Marketing & Communication

Improved internal communication at TechMed promotes collaboration and idea-sharing, contributing to overall success. Effective marketing is essential for showcasing researchers' achievements and mission within healthcare circles. By effectively communicating its value and innovation, TechMed can attract more attention, support, and partnerships.

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Events

Researchers within the TechMed Institute aim to impact healthcare with medical technologies. Stakeholder engagement is crucial for fostering collaborations and enhancing the ecosystem, leading to accelerated innovations and improved research projects. Organizing lasting and impactful events, like the TechMed Event and TechMed Research Day, whether physical, digital, or hybrid, can provide valuable support.

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SEED FUNDS



Pioneers in Healthcare

The Pioneers in HealthCare (PiHC) Innovation Fund stimulates bottom-up collaboration between the world of new technologies and medical practice. The fund is supported by the University of Twente, Saxion Hogeschool, MST, ZGT and Deventer Ziekenhuis and challenges technical researchers and medical specialists to initiate cross-institute research programs.

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TURBO

The University of Twente and Radboudumc have set up the Twente University RadBoudumc Opportunities (TURBO) program. With a grant from the TURBO program, research groups from both institutions can expand an innovative idea into a large research project.

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STRATEGIC PROGRAMS



Key Enabling Technologies for Personalised Medicine

Personalized Medicine focuses on tailoring health and care approaches to individual patients based on their unique characteristics. It encompasses not only pharmaceutical treatments but also technological advancements, promising a transformative shift in healthcare delivery. As Personalized Medicine evolves, it offers numerous new opportunities that need to be explored to fully harness the potential of emerging technologies. Current pillars are: Kidney Health, Technology for Women's Health and Phantom Research Infrastructure.

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Stimulate HealthTech Implementation

The University of Twente conducts exceptional research in health tech innovation but faces challenges in translating these innovations into societal and healthcare market impact. To achieve our goal of improving healthcare, a comprehensive approach is needed, considering social, economic, ethical, governance, behavioral, and cultural perspectives. Early stakeholder engagement helps prevent research mismatches, ensures commitment, understanding, and attracts potential investors, maximizing the impact of health technology on society.

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MedTech for Staffing challenges

In 2024, the TechMed Centre initiated a comprehensive program targeting pressing healthcare challenges, emphasizing innovation and improved outcomes. Spanning from 2024 to 2027, the program aims to address complex issues in healthcare. Utilizing collaborative research, interdisciplinary methods, and advanced technologies, the TechMed Centre aims to drive transformative changes and deliver impactful solutions benefiting patient care and well-being.

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Planetary & Sustainable Health

The program (2024 – 2027) aims to boost the University of Twente's influence in promoting planetary health and sustainable healthcare. Leveraging UT's unique expertise, it seeks to address global health challenges through innovative solutions and interdisciplinary collaboration, engaging all stakeholders. The goal is not just to expand knowledge but to enact meaningful changes benefiting both the planet and its inhabitants.

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STRATEGIC CONSORTIA



4TU.Health

The aim of 4TU.Health (University of Twente, TU Delft, TU Eindhoven and Wageningen) is to connect the knowledge and experience of four leading universities of technology to contribute to effective solutions for societal challenges in the field of health & care. By joining forces and sharing best practices, 4TU.Health is a valuable discussion partner for governments and other organisations involved in research and innovation in the health domain.

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ICMS

The University of Twente collaborates with partners in movement studies, prevention, and health promotion to enhance their joint propositions. Through the ICMS program with Sint Maartens Kliniek, Roessingh Research and Development, and Radboudumc, UT aims to improve the quality of life for people with movement disorders. This involves interdisciplinary scientific research, emphasizing innovation and close cooperation among scientists, healthcare funders, paramedical specialists, sports professionals, and innovative companies.

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TOPFIT

TOPFIT is a strategic collaboration focused on prevention and health promotion in the East Netherlands region. Our aim is to exchange and integrate knowledge on methods that contribute to improving lifestyle and health, with ultimate goals of inspiration, scaling, and implementation.

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Visit the Internal Research Portal



