

HTIC 2026

26 October 2026

DETAILED PROGRAMME

26 OCTOBER 2026

Biomedical Engineering:

From Research to Real-World Impact

ORGANISERS

EHTIC
European HealthTech Innovation Center

Faculty of Biomedical Engineering

Silesian University of Technology

RESEARCH UNIVERSITY
EXCELLENCE INITIATIVE

HONORARY PATRONAGE

WEKTORY NAUKI

Minister of Science and Higher Education
Republic of Poland

The project is funded from the state budget, allocated by the Minister for Science and Higher Education under the 'Vectors of Science' Programme

PATRONAGE

POLICJA

Silesian Voivodeship

POLISH SOCIETY FOR FORENSIC GENETICS

Instytut Ekspertyz Sądowych
im. Prof. dra Jana Sehna w Krakowie

INSTITUTE OF FORENSIC RESEARCH · KRAKOW ·

POLSKIE TOWARZYSTWO KRYMINALISTYCZNE

Zabrze
w sercu Śląska

SUM Medical University of Silesia, Katowice, Poland

Perspektywy

PARTNERS & SPONSORS

INNOVARIS

CABIOMEDE VET

ChM®

ITA

CHIRMED®

FindTech

DETAILED PROGRAMME

Biomedical Engineering:

From Research to Real-World Impact

8:00 – 9:00

- **| Registration**

09:00 – 09:15

- **| Opening and Welcome Ceremony**

  Prof. Marek Gzik, Polish Ministry of Science and Higher Education

  Prof. Marek Pawełczyk, Rector of Silesian University of Technology

  Prof. Marcin Basiaga, PhD, BEng. Dean of the Faculty of Biomedical Engineering

  Dr Arkadiusz Szmal, PhD, BEng. Director of European HealthTech Innovation Center

09:15 – 10:00

- **| Keynote Lecture**

  The AI Arms Race in Medicine: Winning the Quarter, Losing the Decade?
  Prof. Wojciech Czakon, PhD, Dr h.c., Jagiellonian University in Kraków

10:00 – 11:30

- **| AI in medicine**
  Chair: Prof. Paweł Badura, Silesian University of Technology

  Towards AI-Based Digital Twins for Personalised Healthcare
  Prof. Ivan Olier, Liverpool John Moores University

  When will AI assist doctors, and when will it replace them?
  Prof. Piotr Buszman, MD, PhD, American Heart of Poland

  Towards Personalized Treatment of Retinal Diseases through AI-Enabled Comprehensive Patient Assessment
  Daniel Ledwoń, PhD Eng., Silesian University of Technology

11:30 – 12:00 | Coffee break

12:00 – 13:30

- **| 3D printing and personalized medicine**
  Chair: Prof. Wojciech Wolański, Silesian University of Technology

  3D Printing Inside an Orthopedic Hospital: From Idea to Clinical Value
  Przemysław Czuma, MD, The Dr Janusz Daab Independent Public Provincial Hospital for Trauma Surgery in Piekary Śląskie

  Automated Design of 3D-Printed Lightweight Hand Orthoses from 3D and 4D Scanning Data
  Filip Górski, PhD, DSc, Beng., Poznań University of Technology

  The use of 3D printing technology, virtual surgical planning and customised implants in maxillofacial and reconstructive surgery
  Krzysztof Dowgierd, MD, PhD, Prof. UWM, Provincial Specialist Children's Hospital in Olsztyn

  Additive technologies in biomedical engineering. Research potential and projects carried out at the Department of Biomaterials and Medical Device Engineering
  Wojciech Kajzer, PhD Eng., Silesian University of Technology

  Thin film and electrospinning engineering in biomedical applications. Fundamentals of the technologies, modern applications, equipment.
  Natalia Szablewska, FindTech

13:30 – 14:15 | Lunch break

14:15 – 16:00

- **| The Biomedical Engineering Sector in the regional perspective: Ecosystem, Environment and Development Prospects**
  Chair: Prof. Lilla Knop, PhD, DSc, Eng. , Prof. Robert Michnik, PhD, DSc, Eng, Silesian University of Technology

From fragmentation to collaboration: creating the ecosystems health innovation needs.
Joanna Broy, PhD, EIT Health

Ecosystems for business models in the biomedical engineering sector in the Silesian Voivodeship
Prof. Sławomir Olko, PhD, DSc, Eng., Silesian University of Technology

Future Competencies of a Biomedical Engineering Graduate
Aneta Aleksander, PhD Eng., Silesian University of Technology

Coordinating the Flow: Contemporary Challenges in Medical Device Distribution Systems.
Mariusz Kmiecik, PhD Eng., Silesian University of Technology

Cabiomede 15'

16:00 – 16:30 | Coffee break

16:30 – 18:15

- **| E-poster Session I – Students & Early-Career Researchers**
  Chair: Prof. Marcin Kaczmarek, PhD, BEng., Silesian University of Technology

  Nanostructured Coatings for Biomedical Applications (15')
  Matteo Montesissa, Marco Boi, IRCCS Rizzoli Orthopaedic Institute

  AI Medical Robotics and Imaging Shaping the future of medicine.
  Maciej Głowacki, Innovaris

  Poster Presentations

18:15 – 18:30

| Awards and Closing

19:00 - 22:00

| Evening Social Events - by invitation only

Conference Dinner
For invited speakers, Scientific Committee members and Invited Guests (Diament Hotel, Zabrze)

Pizza & Networking Evening
Connect. Share. Talk. Enjoy. An informal evening for students and young researchers participating in the e-Poster Session.
(Student Zone at the Faculty of Biomedical Engineering)