



Site:

**Centre d'Innovation, Université de Technologie de Compiègne
57 avenue de Landshut, 60200 Compiègne**

L'Université de Technologie de Compiègne, en collaboration avec l'Université de Waterloo (CANADA), organise une école d'hiver du 27 au 31 janvier 2025 autour du thème « Ingénierie biomédicale et e-santé soutenables » à Compiègne, France. L'objectif est de mieux sensibiliser les étudiants français et canadiens de plusieurs facultés, avec pragmatisme, à la problématique de la durabilité dans les domaines du biomédical, IA et e-santé à travers des séminaires, de cours pratiques et d'un biohackathon autour d'enjeux identifiés comme la conception et la fabrication/recyclage de dispositifs médicaux, l'IA, la gestion des déchets, etc...

Elle s'adresse :

- aux étudiants GB en technologie de santé (ingénieurs : filière BM/BB, masters : MSCI BMI, IDS);
- aux étudiants master HIC intéressés par les applications en santé
- aux étudiants GI et IM intéressés par les applications en santé
- aux étudiants de Waterloo (master)

The University of Technology of Compiègne, in collaboration with the University of Waterloo (CANADA), is organizing a winter school from January 27 to 31, 2025 around the theme “Sustainable biomedical engineering and e-health” in Compiègne, France. The objective is to raise awareness among French and Canadian students from several faculties, with pragmatism, of the issue of sustainability in the fields of biomedical applications, AI and e-health through seminars, practical courses and a biohackathon around issues identified such as the design and remanufacturing of medical devices, AI, waste management, etc.

It is addressed to:

- GB students in health technology (engineers: BM/BB sector, masters: MSCI BMI, IDS);
- to HIC master students interested in health applications
- GI, IM students interested in health applications
- to Waterloo students (master)

Monday, January 27th, Amphi and rooms C1

Context, contacting, preliminary work presentations		
Time	Title	Actors
9:00 – 9:30	Welcome coffee	
9 :30 – 12 :30	Group contact and working	Students
12:30 – 14 :00	Lunch	
14:00 – 14:30	Opening presentation	Profs. S. Boudaoud/D. Istrate, UTC
14 :30 – 16 :00	Preliminary work presentation	Students
16 :00-16 :15	Coffee break	
16 :15 – 18 :15	Clinical/Industrial/academical point of views around sustainability	Denis Mercat (Kickmaker, industrial) Dr Hafsa Hachad (clinician, AP-HP) Ms Annick Pigot (DSI GHICL, Lille, clinical informatics) Prof. Margaret Mutumba, Western University (academics)

Tuesday, January 28th, Amphi & rooms CI

Design, ethics, regulation, project working		
Time	Title	Actors
8:00 – 8 :30	Breakfast	
8:30 – 12:30	Team work/Practical works	Students/mentors
12:30 – 14h30	Lunch	
14:30 – 15:00	Ethics	Plinio Morita, UW
15 :00– 15:30	Green/edge computing	Jérémy Laforêt, UTC
15:30 – 16 :00	Remanufacturing in medical imaging	M. Marceau, Philips
16 :00-16 :15	Coffee break	
16 : 15– 16 :45	Sustainability & et regulatory affairs	Jean-Matthieu Prot, UTC
16 :45– 17 :15	Sustainable System design	Maud Gorbet, UW
17 :15 – 17:45	Waste management	Steve young, UW

Wednesday & Thursday, January 29th and 20th, Rooms CI

Project working		
Time	Title	Actors
8 :00-8 :30	breakfast	
8:30 – 12 :30	team & practical works (only wenesday)	Students/mentors
12: 30 – 13 :30	Lunch	
13:30 – 18:30	team & practical works (only wenesday)	Students/mentors

Friday, January 31th, Amphi and Rooms CI

BioHackathon restitution		
Time	Title	Actors
8:00 – 8 :30	Breakfast	
8 :30-12 :30	Team work/presentation finalization	Students/mentors
12 :30-14 :30	Lunch	
14: 30 – 16 :15	Présentation defense	Students/ expert jury
16 :15 – 16 : 35	Coffee break & deliberation	
16 :35 – 17 :00	Jury Prizes & closing	

Contacts: Prof. S. Boudaoud, sofiane.boudaoud@utc.fr / Prof. D. Istrate, dan.istrate@utc.fr, Dr. J. Laforêt, jeremy.laforet@utc.fr

