

Parcours international Healthy living 2e année

Présentation

Healthy Living - cursus Health 4 life engineering

With the rapid advance of biomedical engineering, life sciences and physical sciences have converged to create a new discipline: biomedicine. This convergence is helping scientists to make important breakthroughs, such as nanoscale systems for disease detection and drug delivery, predictive computer models of disease progression and drug response, and increasingly affordable forms of biometric analysis for personalized medicine.

Over the past 150 years, average life expectancy has increased by approximately 4 to 5 years per generation. the gap between the active and inactive has widened, and pressure on health and social care costs for society has increased. as chronic disease becomes more prevalent and populations continue to age, eu healthcare systems are striving to shift the burden of care from hospitals to the community and the individual. There is consequently a growing need for biomedical innovations to be more user-centred, empowering patients to manage their healthy living and active ageing. Postgraduate recruits to the fast-growing sector of biomedical engineering will need to bring not only their expertise in a particular field, but also a thorough grounding in a range of technologies and the ability to apply their knowledge and skills to the design of new products and services. Health4life addresses this need with a novel programme combining education and research.

Admission

The master of Health Engineering is open in initial training and continuing education. The 2nd year is accessible on file (and / or interview) to the candidates having validated the 1st year of master of a compatible course or else by a validation of studies or acquired according to the conditions determined by the university or training.

Public continuing education : You are in charge of continuing education :

- if you resume your studies after 2 years of interruption of studies
- or if you followed training under the continuous training regime one of the previous 2 years
- or if you are an employee, job seeker, self-employed

If you do not have the diploma required to integrate the training, you can undertake a [validation of personal and professional achievements \(VAPP\)](#)

How to apply depends on your profile ? You are a student of French nationality, or you reside in the EU, or you reside in a country not covered by the Studies in France procedure (see below), you must apply via the ecandidat application on the dates below :

- For the 1st year of the master in Health engineering : entry of online applications between 18/03/2020 and 06/05/2020. Interviews for those pre-selected in early June 2020
 - You must also fill in the APPLICATION FORM FOR THE MASTER 1ST YEAR HEALTH ENGINEERING (IS) - MASTER 2ND YEAR WISHES SHEET AND imperatively attach it to your application file. MASTER 1ST YEAR APPLICATION HEALTH ENGINEERING (IS) MASTER 2ND YEAR WISHES SHEET To be attached to each application file
- For the 2nd year of the Master in health engineering : online application entry between 04/01/2020 and 05/29/2020 except for the track Healthy living - health 4 life engineering 2nd year master : application from 28 February 2020 to 20 April 2020
 - You live in one of the countries below. You are therefore subject to the Studies in France procedure: online applications entered on the Campus France site. The dates of candidacies are specified on this site. The "Studies in France" procedure only concerns students residing in one of the following 41 countries:

Algeria, Argentina, Benin, Brazil, Burkina Faso, Burundi, Cameroon, Chile, China, Colombia, Comoros, Congo Brazzaville, South Korea , Ivory Coast, Djibouti, Egypt, United States, Gabon, Guinea, India, Indonesia, Iran, Japan, Kuwait, Lebanon, Madagascar, Mali, Morocco, Mauritius, Mauritania, Mexico, Peru, Democratic Republic of the Congo, Russia , Senegal, Singapore, Taiwan, Togo, Tunisia, Turkey and Vietnam.

- For more information, we invite you to consult the master of Health engineering website or the training catalog

Poursuite d'études

Health4life leads on naturally to PhD positions and/or R&D careers in world-leading industries, high-potential start-ups, teaching hospitals and universities, where students are able to utilise their skills in collaborative cutting-edge research and innovation projects, translating technologies into viable applications for the benefit of all.

Infos pratiques :

- > Composante : UFR Médecine, UFR Pharmacie
- > Durée : 1 an
- > Type de formation : Formation initiale / continue
- > Lieu :

Contacts

Responsable pédagogique

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Secrétariat de scolarité

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Programme

Master 2e année

Semestre 9

7 option(s) au choix parmi 19

UE Computer-based medicine for chronic diseases (ESI summer school archamps)	6 ECTS
UE Molecular tools for the diagnosis and treatment of genetic diseases	3 ECTS
UE Proteomics for health research	3 ECTS
UE Technological innovation in health	

UE Computational biology	
UE French as a foreign language	
UE other UGA's mentions	
UE other UGA's mentions	
UE Research project - long internship	
UE Research project - short internship 1	
UE Computer-aided drug design : therapeutic applications	3 ECTS
UE Innovative cell and gene therapies	9 ECTS

UE Animal experimentation	3 ECTS
UE Environmental epidemiology	
UE Regulations in health and environmental safety	
UE Modeling in environmental health	
UE Methods in environment, health and GIS	
UE Micro and nanotechnologies for health	3 ECTS
UE Pollutants and health	3 ECTS

Semestre 10

1 option(s) au choix parmi 6

UE Big data for healthy living (ESI summer school archamps)	6 ECTS
UE Safer ecodesign for nanomaterials (ESI summer school archamps)	
UE Augmented reality in surgery	
UE Technological innovation in health	
UE Research project - long internship	
UE Research project - short internship	
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