We are convinced that not only technical, but also social and ecological aspects must be integrated into the instruction of computer scientists.

Teachers, researchers, staff, and students have therefore initiated a process of change that will not only change the degree programme, but also engages in a dialogue with businesses, researchers, politicians, and society.

Computer Science for Future (CS4F) is an initiative of the Department of Computer Science at the Hamburg University of Applied Sciences (HAW Hamburg).

HOCHSCHULE FÜR ANGEWANDTE WISSENSCHAFTEN HAMBURG
Hamburg University of Applied Sciences

Because you can make a difference.

HAW HAMBURG

We want to firmly anchor the United Nations' Sustainable Development Goals in teaching and research to initiate societal change towards more sustainability, climate protection and social justice.

COMPUTER SCIENCE FOR FUTURE

LET'S WORK TOGETHER AND REALISE AND SHAPE A SUSTAINABLE FUTURE

1 NO POVERTY	2 ZERO HUNGER	3 GOOD HEALTH AND WELL-BEING	4 QUALITY EDUCATION	5 GENDER EQUALITY	6 CLEAN WATER AND SANITATION	7 AFFORDABLE AND CLEAN ENERGY
8 DECENT WORK AND ECONOMIC GROWTH	9 INDUSTRY, INNOVATION AND INFRASTRUCTURE	10 REDUCED INEQUALITIES	11 SUSTAINABLE CITIES AND COMMUNITIES	12 RESPONSIBLE CONSUMPTION AND PRODUCTION	13 CLIMATE ACTION	14 LIFE BELOW WATER
15 LIFE ON LAND	16 PEACE, JUSTICE AND STRONG INSTITUTIONS	17 PARTNERSHIPS FOR THE GOALS	SUSTAINABLE DEVELOPMENT GOALS			

OUR APPROACH

We are building a free, modular, and self-determined knowledge commons; a kind of intellectual commons for sustainable computer science based on the principle of „learning by teaching" – a cooperative teaching method in which students plan and carry out teaching units on their own responsibility.

SUCCESSES TO DATE

In order to integrate the UN's Sustainability Goals, existing courses have been modified and new courses are constantly being developed. We will create a knowledge commons for this purpose. To accompany the project, a podcast was also launched, financed by third-party funds, and run by students, professors, and employees of the university. In each episode, the team talks to activists, experts and scientists about sustainability issues in computer science, such as climate protection, social justice and net politics.

PROJECTS IN THE CONTEXT OF CS4F

Numerous ongoing projects show how IT can be used to visualise and tap into the potential of sustainable action - concretely and effectively. For example, a student project is conducting a holistic sustainability analysis of our computer engineering laboratory.

Digital twins simulate traffic flows, for example, and can help to reduce CO_2 emissions. The development of web-based tools helps to recognise the impact of agriculture on the ecosystem in southern Africa, for example, and to make local decisions for greater sustainability and climate protection.

BECOME A SUPPORTER

The implementation of the UN Sustainable Development Goals can only be achieved together, and we cannot do this without sponsors and supporters.

INTERDISCIPLINARY COLLABORATION
Collaborative approaches that go beyond individual disciplines inevitably require more resources for research and cooperation. This is the only way to develop innovative ideas and technologies that have a positive impact on the environment.

EXPERTISE IN A TEAM
We conceive of a team with sufficient resources and expertise to drive the initiative's project forward. To realise this successfully, we need both financial and personnel support.

FURTHER DEVELOPMENT OF TEACHING
Financial resources are required to develop new teaching content, to train lecturers and to implement the projects on sustainable IT.

PROJECTS WITH IMPACT
We also need additional human resources to effectively coordinate the implementation of the measures, effectively coordinate the implementation and ensure the success of the projects.

TALK TO US ABOUT DIRECT SUPPORT

You would like to get involved in sustainability and climate protection and support our work, but don't yet know exactly how? Let's talk about how you can get involved or how we can help you.

You can also support us directly with a donation. Every donation helps our work, and is used for the development of new teaching content and the realisation of sustainable projects.

DONATION ACCOUNT
Bank details:
Förderverein Elektrotechnik und Informatik der HAW Hamburg e.V.

IBAN: DE18200505501214121160

Intended Use: Spende CS4F

For donations over 300 EUR we will of course provide a donation receipt. Please contact us.

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