Universität Hamburg
DER FORSCHUNG | DER LEHRE | DER BILDUNG

EUGLOH
European University Alliance for Global Health

CO-CREATING INNOVATION

9-13 SEPTEMBER 2024 AT UNIVERSITÄT HAMBURG

The European University Alliance for Global Health (EUGLOH) is arranging a co-creation week for advanced students and early career researchers to co-design a project, product or concept based on a challenge related to Global Health together with one of our non-university partners:

a) Helmholtz Centers: Alfred-Wegener-Institut / HEREON / GEOMAR
b) Siemens Healthineers AG
c) Virchow Foundation for Global Health
d) Konrad Adenauer Foundation
e) Career & Qualification Center

This activity focuses on the exchange and co-creation between an international, young academic generation and partners in society and industry. By jointly working on a challenge provided by our non-university partners to develop a prototype, the co-creation week aims to expand the European University Alliance beyond its academic nucleus.

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The different academic and non-academic perspectives on a given challenge from the three major fields of knowledge transfer identified through an extensive evaluation across all nine partners

1) Entrepreneurship and Innovation
2) Engagement and Co-Creation
3) Employability and Qualification

will contribute

(i) to the expansion of the pool of knowledge within academia,
(ii) to the enhancement of cooperation between university and industry/society,
(iii) to opening (career) pathways beyond academia,
(iv) to establishing a trajectory towards a EUGLOH think tank,
(v) to making universities more transparent and approachable,
(vi) to the best-practice exchange on how to foster collaboration between academia and society/industry,
(vii) to highlighting Global Health as an interdisciplinary field.

STRUCTURE, APPLICATION AND PROGRAM

The co-creation week will be held

PLACE: on-site at the Knowledge Exchange Agency of Universität Hamburg

TIME: from 9 – 13 September 2024 (see timetable below)

Hybrid participation will be made available in case it is needed for extraordinary circumstances. Throughout late August and September, a virtual space will be established and kept accessible for discussions, sharing of information and preliminary exchanges on the challenges between the international advanced students, early career researchers and non-university stakeholders.

TARGET GROUP: 2 advanced students and 2 early career researchers per partner institution may be financed through EUGLOH mobilities.

The applications must provide and will be assessed by means of

a) the field of study or scientific work in relation to the challenges and/or Global Health,

b) a short letter of motivation (1-2 pages) with regard to the challenges and
c) the indication of two preferred challenges from the list below (priority 1 and 2) to support the establishment of internationally diverse teams in each challenge.

The co-creation week will include free lunches and coffee breaks, one joint dinner, complementary workshops on methods – Design Thinking, Co-Creation and Perfect Pitch – and a social event like an excursion to the Hamburg Innovation Summit 2024 or a visit to a cultural institution associated with the project, along with a keynote.

Deadline for applications: **7 July 2024**

Submit your application on the EUGLOH website here.

If more candidates apply than there are places available, the organizers will select the candidates in collaboration with the sending partner institutions. All applicants may be placed in either of the two preferred challenges indicated in the application.

Successful applicants will be informed by mid-July to be able to plan their stay in Hamburg.

Participants are responsible for organizing their journey and stay through the funds made available via EUGLOH mobility at their own institution. For funding, please contact your local EUGLOH team. We recommend booking your stay as early as possible upon confirmation of participation. Organizational advice will be offered to successful applicants.

CONTACT

In case you have any queries, please contact:

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CHALLENGES

1) Entrepreneurship and Innovation

a. Helmholtz Centers: Alfred-Wegener-Institut / HEREON / GEOMAR

Title: **ATMO-BOX CHALLENGE: START-UP CALL FOR OCEAN EXPLORATION**

The air we breathe and that surrounds our world faces a multitude of challenges. Extensive atmospheric measurements are essential to better understand the pollution in our atmosphere and to check the effectiveness of measures to improve air quality. This is precisely where the innovation platform SOOP (Shaping an Ocean of Possibilities for science-industry collaboration) comes in, with the aim of involving science, industry and private individuals and expanding the number of measurement platforms, and thus the database, in new ways. To achieve this goal, one approach is to set up mobile air measuring stations, so-called Atmo-Boxes (PAMOS - Portable Atmospheric Measuring Box on Sea), on various ships such as private sailing boats, cruise ships, ferries or container ships as well as on land, e.g. in climatic health resorts or at particularly polluted locations. With our innovative Atmo-Box, we offer a solution that not only provides precise data, but also helps to protect our environment.

Our Atmo-Box is more than just a sensor - it is a tool that helps cities, municipalities and companies to monitor air quality and take measures to improve it. By taking continuous measurements at various locations, we can not only record the current air conditions, but also identify trends and react to problems at an early stage. With a low weight of 20 kg and dimensions (basic triangular shape) of approx. W 50 cm x H 62 cm (x H 95 cm with top), the Atmo-Box can be used in a variety of mobile applications. The Atmo-Box is currently manufactured by TTC/CarbonHead Wettstetten. The Atmo-Box is equipped with sensors for measuring various air quality parameters such as aerosols, soot concentrations and trace gases (CO2, NO, CO, CH4, SO2) as well as for recording meteorological data (temperature, air pressure, humidity, wind direction, wind speed and precipitation). The data collected on land and at sea can be used to determine air

quality very locally and precisely and revolutionize air quality monitoring - so the possibilities and opportunities are huge!

Challenge
Develop a business model for the Atmo-Box that focuses on data collection, processing and use. An important question here is who the main users of this data are in the business model. Cities and municipalities may be interested in air quality monitoring, as well as shipping companies that see environmental protection as an important part of their identity.

In addition, the business model should include innovative marketing strategies and services such as calibration, repair, replacement of the sensors and the carrier box.

For further information: Two companies that 1) manufacture the Atmo-Box and 2) a company that would be interested in the data that is collected are in prospect.

b. Siemens Healthineers AG

Title: **IDENTIFICATION OF POTENTIAL MARKETS AND BUSINESS OPPORTUNITIES FOR A 40 KW AVERAGE POWER X-RAY SOURCE**

We, Siemens Healthineers, are developing an X-ray source which might bring X-ray fluorescence imaging from synchrotron facilities to a stand-alone laboratory application.

The source is an enhancement of rotating envelope tube technology, based on Bremsstrahlung generated by 70 - 145 kV electrons out of an optical focal spot 1 mm x 1 mm (IEC60336), allowing ~ 40 kW power close to uninterrupted operation. The leap in average power, together with further developments, will allow innovations in a multitude of x-ray methods, including industrial and medical usage. The workstream aims to identify such opportunities and to co-create business cases. We are looking for supporters with technical and/or business understanding.

2) Engagement and Co-Creation

a. Virchow Foundation for Global Health

Title: **SDG – INTERSECTORAL AND INTERDISCIPLINARY COOPERATION IN GLOBAL HEALTH**

Essential for achieving the Sustainable Development Goals of the United Nations 2030 Agenda and accelerating progress is intersectoral and interdisciplinary cooperation to break down the silos between actors operating in global health.

Since these actors also partly follow their own interests (e.g. funding, outreach, impact etc.) one huge challenge arises: how can trust be built and maintained to expedite action?

b. Konrad Adenauer Foundation

Title: **DIGITAL HEALTH AND AI SOLUTIONS AS INSTRUMENTS FOR IMPROVING GLOBAL HEALTH**

Given the rising prominence of artificial intelligence across sectors, including the rapidly evolving healthcare domain, it is crucial to comprehend these developments. What are the opportunities and risks? What regulatory frameworks are necessary not only to use artificial intelligence tools but also to provide the necessary data for their global adoption? The success of AI depends on governance, equity, data regulations, policies, and more.
It is important to identify priority areas for guidance, technical support, and consensus-building to distribute responsibilities fairly and leverage AI in the global health sector.

Challenge: In the diverse stakeholder landscape of global health, what is possible with AI, and what are the key issues, especially regarding public-private partnerships, national and regulatory frameworks, and investments?

3) Employability and Qualification

a. Career and Qualification Center

Title: **ACADEMIA AND BEYOND**

Micro-credentials are becoming an increasingly important theme in both academia and industry. In the field of Global Health, disciplines related but adjacent to medical professions, the required skillset to succeed in a suitable career pathway is not necessarily conveyed by academic knowledge itself but by complementary educational offers.

Despite the existing multitude of offers for students and early career researchers by public and private providers alike, there is no binding framework for relevant competences for career pathways in or beyond academia.

The Career & Qualification Center of Universität Hamburg will address this lack of a common ground in micro-credential competences for students and early career researchers.

We want to combine our understanding of future skills and specific demands of the labor market with the needs of students and early career researchers. Together, we aim to develop a tailor-made micro-credential competences framework based on an analysis of the needs and demands in job profiles related to Global Health, and design extra-curriculum activities to complement the formal degree modules.

Participants from all fields are welcome; however, we will prioritize applicants from fields adjacent to or from medical professions.

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TIMETABLE

	Monday	Tuesday	Wednesday	Thursday	Friday
09am – 09.15am		*Welcome / Register*	*Welcome / Register*	*Welcome / Register*	*Welcome / Register*
09.15am – 10.30am		**Design Thinking I** TheWhyGuys	**Co-Creation I** cocreation.	**Perfect Pitch! I** HamburgInnovation	**Challenge Consolidation**
10.30am – 10.45am		*COFFEE BREAK*	*COFFEE BREAK*	*COFFEE BREAK*	
10.45am – 12pm		**Design Thinking II** TheWhyGuys	**Co-Creation II** cocreation.	**Perfect Pitch! II** HamburgInnovation	**Pitches and Award**
12pm – 01pm		*LUNCH BREAK*	*LUNCH BREAK*	*LUNCH BREAK*	*END*
01pm – 02.30pm	*Welcome / Register*	**Challenges**	**Challenges**	**Challenges**	
02.30pm – 02.45pm	Intro	*SHORT BREAK*	*SHORT BREAK*	*SHORT BREAK*	
02.45pm – 04.15pm	Key Note and Work Groups	**Challenges**	**Challenges**	**Challenges**	
EXTRA 07pm – 10pm		*JOINT DINNER*		*HISummit OR DIALOGHAUS*	

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