VACANCY ANNOUNCEMENT

Student assistant/tutor

Research seminar JM6/7 "Using GIS in the context of Disaster Risk Reduction"
MSc "Geography of Environmental Risks and Human Security"

March - July 2021

To support the research seminar JM6/7 "Using GIS in the context of disaster risk reduction" (18 credits) of the joint MSc "Geography of Environmental Risks and Human Security" of United Nations University (UNU-EHS) and the University of Bonn, we are looking for a highly qualified student assistant with an interest in vulnerability and risk assessment, demonstrated GIS skills (ArcGIS, QGIS) and a passion for working with students.

- Duration: 15 March – 30 July 2021
- 8 hours/week

Background: JM6/7 "Using GIS in the context of DRR"
This research seminar consists of (i) lectures, (ii) self-paced exercises using Geographic Information Systems (GIS) software, and (iii) group work in the form of dedicated research projects. The lectures provide an introduction to the basic principles and functioning of GIS and remote sensing. The self-paced exercises aim at conducting step-by-step an indicator-based, spatial explicit, vulnerability and flood risk assessment using both commercial (ArcGIS, SPSS) and open-source (QGIS) software. The delivery of spatial information that can be used to support real-world problem-solving and decision-making in the context of disaster risk is an essential aim of this course, and will be discussed based on a real case study. The course introduces GIS concepts and tools that can be used to acquire, create, store, process, analyze, visualize and communicate geospatial data. In parallel, students will form groups and start working on their individual research projects where the skills introduced above will be applied in concrete case studies.

Terms of Reference
- Support the revision and updating of lecture materials (incl. script for self-paced GIS exercises, datasets for the exercises, etc.)
- Participate in lectures
- Hold weekly tutorials where the contents of the lectures and hand-on exercises are revisited
- Provide technical assistance and guidance to students in the group work phase

Qualifications
- Knowledge of key concepts of vulnerability and risk
- Advanced knowledge in ArcGIS
- Basic knowledge in QGIS
- Basic knowledge in statistics (experience with SPSS is an asset)
- Fluency in English (oral & written)
- Experience in working with students is an asset (e.g. previous work as a tutor)

Please send your **letter of motivation** (max. 1 page) **and CV** as **one PDF file** to Dr. Michael Hagenlocher (hagenlocher@ehs.unu.edu), Dr. Yvonne Walz (walz@ehs.unu.edu) and Dr. Mostapha Harb (harb@ehs.unu.edu) **until 05 February 2021**.