The Working Group Coupled Human Landscape System: Risk & Resilience at the Department of Geography, University Innsbruck (Austria) is seeking candidates for a 

**POSTDOC POSITION (F*M) for Agent-Based Modelling in context of disaster risk and resilience**

(full-time, 30h per week, with the possibility to increase up to 38 h; for a period of four years. Starting date is to be arranged.)

**Your tasks:**
- Conduct independent research on global change issues and the impact of natural hazards on communities in mountain regions;
- Analyse and further develop methods to study decision-making behaviour and everyday practices in dealing with natural hazards; and evaluation of resilience-building strategies and risk management plans.
- Evaluate resilience-building strategies and risk management plans, including the development or adaptation of an agent-based model to simulate changing socio-economic conditions and decision-making.
- Collaborate with the interdisciplinary team to enhance the conceptual model for analysing coupled human-landscape systems in mountain areas (e.g. Hossain et al. 2020) by identifying crucial couplings and interactions within the human-landscape system at different spatial and temporal scales.
- Contribute to the development of a numerical prototype for the coupled model for the human-landscape interaction system, which will be tested and evaluated together with the interdisciplinary team. Another PostDoc will focus on landscape evolution model and the hazard processes.

**Responsibilities:**
- Conduct independent research;
- Manage scientific projects, including applications and implementation;
- Independent teaching as well as supervision of students in the geography study program;
- Publish scientific publications and actively participate in university self-administration.

**Your profile:**
- PhD degree in the fields of e.g. geography, social sciences, computational social science, digital humanities or a related field is required.
- Expertise in social simulation, agent-based modelling and social studies and qualitative data analysis;
- Strong background in computational and programming skills;
- Experience in interdisciplinary research and respective collaboration with various disciplines. Additional experience with human-environmental interactions, coupled human-landscape (natural) systems (CHANS), risk and resilience is an asset.
- Motivation to take initiative and responsibility in your own research.
- Dedication to scientific excellence and high-quality work.
- Very good English language skills both in oral and written communication are required;
- Willingness to teach in the Bachelor's and Master's curricula of geography;
- Demonstrated publication activity in peer-reviewed journals,
- Independent team-oriented working style, project-related cooperation and communication skills.

**Our offer:**
This position offers a stimulating research environment and collaborate with international experts in the fields related to the project. To learn more about the research objectives and the interdisciplinary team, please visit our website. The minimum monthly gross salary € 3'264 (for 30h per week (14 x)) according to the salary scheme of the University Innsbruck. Furthermore, the university has numerous attractive offers.

To apply, please upload your application including (1) a curriculum vitae, (2) a list of publications, (3) statement of the past and current research experience (up to 2 pages), (4) reflections on the proposed project with your application (max. 5 pages), (5) certificates for full academic record, and (6) up to three names of references with the full contact information at the application portal (Code GEO-13509), until July 28, 2023. The position will be open until adequately filled.

For further information or inquiries, please contact Margreth Keiler (margreth.keiler@uibk.ac.at). We look forward to receiving your application and the possibility of welcoming you as a valuable member of our interdisciplinary research team.