Graz University of Technology (TU Graz) is a technical-scientific research institution rich in tradition based in Austria. TU Graz is an international top performer in all its five Fields of Expertise, capitalising on intense collaborations with industry and other research facilities worldwide. Within the European higher education landscape, TU Graz is a strong player in attracting talent and resources.

Do you have your Master's Degree and are you looking for a new challenge? Are you interested in doing a PhD and/or work within a multidisciplinary scientific environment with strong industry collaborations?

The Vehicle Safety Institute (www.vsi.tugraz.at) at Graz University of Technology offers a position as a Research Assistant (f/m/d) (Universitäts-Projektassistent*in)

- in the field of pedestrian motion modelling for accident simulations
- 40h/week

**Job description**
Within your main project, you will work on the creation of a novel pedestrian dataset, comprising intrinsic and extrinsic influencing factors on pedestrians’ motion. Your data-driven model will further be integrated in state of the art simulation environments.

This position focuses in particular on exploration of the transition between common and dangerous traffic situations. Therefore, you have to investigate on pedestrian accident data and derive common influencing factors, which lead to dangerous situations. Stochastic simulations should further help to simulate pedestrians more realistically, which is a prerequisite to improve active safety systems.

**Job requirements**
- Master’s Degree in Computer Engineering, Computer Science, Software Development or other technical studies (Maths, Physics, Mechanical Engineering, Geodesy, Electrical Engineering or similar)
- Good English skills
- Advanced programming skills in at least one programming language (ideally in Python and C++)
- Target-oriented independent working style and the ability to collaborate within a team

**What we offer**
- Exciting diverse tasks in a research field with high impact
- Possibility to become a doctoral student and obtain a PhD in technical sciences
- Integration into a motivated, young team in Graz at the Campus Inffeldgasse
- Flexible working times
- Gross monthly salary according to the collective agreement (14x) for university project assistants (B1): € 2,929

**Expected Starting Date:** 01 January 2021
**Closing Date for Applicants:** 30 November 2020

Please send your CV and cover letter to office.vsi@tugraz.at –use [Application-INTERACT] as the subject. It would be great if you can include a link to an exemplary code repository, showing your work style in your application.