Safety at TUM Hyperloop

In 2015, a student initiative was founded at the Technical University of Munich (TUM) to develop and build prototypes for the SpaceX Hyperloop Pod competitions. Over the last half decade, the team has won all competitions and gained extensive experience in the field of ultra-fast ground transportation.

In 2020, the Technical University of Munich, in close collaboration with the successful student initiative, launched the ambitious TUM Hyperloop program with the goal of developing and building a real-scale ultra-high-speed ground transportation system based on the ideas of the Hyperloop concept. To achieve this goal, aspects such as safety and economic feasibility play a central role.

Your Mission:

- Implementation of structured approaches to identify hazards and its associated risks (IEC/ISO 31010:2009)
- Safety Assessment
- Development of a safety concept for Hyperloop systems. Support gathering safety cases and issuing safety recommendations
- Be an active member of the Certification Team working closely with the independent assessment and certification body to agree on the certification path to be followed
- Work together with teams to ensure the safety of the Hyperloop systems by an appropriate design as well as its verification and validation

Your Qualifications:

- Highly motivated
- Familiar with risk assessment processes (FHA, HARA, PSA, etc) or willing to learn
- Sound knowledge of requirement definition and development processes
- Very good communication skills in English (German or other language is an asset)
- Willing to undertake the challenge of defining and conducting the certification of a disrupting technology

If you have any questions, please contact Ms. Ramírez at sofia.ramirez@tum.de or by phone at +49 176 57709898.