Having around 8,300 students, Heilbronn University is the largest university of applied sciences in Baden-Württemberg and one of the leading ones in Germany. The university's areas of expertise are engineering, economics and computer science. The recently founded **Interdisciplinary Teaching and Research Center for Machine Learning (ZML)**, situated on the Sontheim campus, is looking to fill as soon as possible the positions of

three research associates / PhD positions
50% part-time
reference number 881-ZML.

The **ZML** focusses on the development of a generic toolkit for machine learning that is able to deal with a variety of problems from engineering, medicine, and computer science. Existing data bases will be robustly made available and complemented by in-house data collection. The center is tightly interlocked with the industry and supporting local companies with applied research and knowledge transfer. The center is also training young academics to progress seamlessly to scientific research or industrial R&D.

The ZML comprises three core areas of research
- Recognition of challenging traffic situations
- Simulation models for chronic diseases
- Neuroscience biomarkers

Areas of responsibility:
- Self-directed design and operation of scientific projects in the chosen research area
- Self-directed development of machine learning methods for interdisciplinary application and collaboration in larger projects of the center
- Setting up the infrastructure for research and teaching
- Teaching practical courses on the Master level (seminars, tutorials, supervising thesis projects) and for professionals (winter- and summer-schools)
- Preparing teaching concepts
- Reporting and scientific publication

Necessary qualification:
- **Master degree in computer science or engineering** or a related field for research and teaching in one of the three research areas of the center (ideally with either specialization in automotive systems or an interdisciplinary degree interfacing medicine / life science).
- Solid knowledge in machine learning, image processing, and pattern recognition
- Experience in software development
- Interested in interdisciplinary research

In case of any further questions please do not hesitate to contact us at zml@hs-heilbronn.de.

We expect you to quickly adapt to your new responsibilities and work well within an interdisciplinary team. The positions also require organizational skills and a high degree of initiative and creativity. Doing one's **doctorate** on the post is strongly encouraged and supported when the conditions are met.

The contract will be based on the German „Tarifvertrag für den öffentlichen Dienst der Länder" (TV-L) and terminate on October 31st 2019. Pay group will be 13 TV-L if all prerequisites are conformed to. In the context of professional equality we are especially interested in the applications of women. Applications of handicapped persons will be privileged if the necessary qualification is given.

We are looking forward to your application (German or English). Please email the application (pdf attachment only) with **reference to 811-ZML and specification of the preferred research area** to personalabteilung@hs-heilbronn.de or via mail to: Personalabteilung der Hochschule Heilbronn, Max-Planck-Str. 39, 74081 Heilbronn, Germany. Mailed hard copies cannot be sent back but will be destroyed after the end of the application procedure due to data protection regulations.