Faculty of Computer Science

At the Institute of Software and Multimedia Technology the Chair of Computer Graphics and Visualisation (Prof. Gumhold) offers within the Collaborative Research Center/Transregio 248 “Foundations of Perspicuous Software Systems” a position as

**Research Associate / PhD Student**

(Subject to personal qualification employees are remunerated according to salary group E 13 TV-L)

The position is to be filled on 1st of March 2019 and is fixed-term until 31st of December 2022 with the option of an extension. The period of employment is governed by the Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz – WissZeitVG). The position offers the chance to obtain further academic qualification (e.g. PhD). Balancing family and career is an important issue. The posts are basically suitable for candidates seeking part-time employment. A part-time employment of 50% of the fulltime weekly hours is possible.

The Computer Science Collaborative Research Center/Transregio 248 lays the scientific foundations for cyber-physical systems of the future, enabling them to explain their functionality and behaviour (so-called Perspicuous Systems). We are researching a foundational and applicable theory of explanations for all facets of system behaviour, as well as visual and verbal elucidation methods for diverse user groups. For more information, visit [www.perspicuous-computing.science](http://www.perspicuous-computing.science).

**Tasks:** scientific research in the field Scientific Visualisation with focus in one or several areas of Immersive Visualization, GPU-based Rendering, Visualization of trajectory and ensemble data, and Visualization for Machine Learning.

**Requirements:** excellent university degree (Master or equivalent) in the field of Computer Science or Mathematics preferably with a specialisation in Visual Computing; ability to work independently and target-oriented in a team; high commitment; fluent in English language to write excellent papers and to participate in international conferences; interest in interdisciplinary cooperation with partners. Experience in the implementation with C++ and of GPUs is appreciated.

**We offer:** a diversified, topical and challenging research position with your own scope for design in an interdisciplinary team of young researchers; participation in conferences for research exchange, excellent contacts to partners from research and industry; independent organisation of the research work.

Applications from women are particularly welcome. The same applies to people with disabilities. Please submit your comprehensive application (including the including CV, a short summary of Master thesis and a statement of research interest) by 15th of January 2019 (stamped arrival date of the university central mail service applies), preferably via the TU Dresden SecureMail Portal [https://securemail.tu-dresden.de](https://securemail.tu-dresden.de) by sending it as a single pdf document to [stefan.gumhold@tu-dresden.de](mailto:stefan.gumhold@tu-dresden.de) or by mail to: TU Dresden, Fakultät Informatik, Institut für Software- und Multimediatechnik, Professur für Computergraphik und Visualisierung, Herrn Prof. Dr. Stefan Gumhold, Helmholtzstr. 10, 01069 Dresden, Germany. Please submit copies only, as your application will not be returned to you. Expenses incurred in attending interviews cannot be reimbursed.

**Reference to data protection:** Your data protection rights, the purpose for which your data will be processed, as well as further information about data protection is available to you on the website: [https://tu-dresden.de/karriere/datenschutzhinweis](https://tu-dresden.de/karriere/datenschutzhinweis)