

## Faculty of Electrical and Computer Engineering

At the **Institute of Circuits and Systems** the **Chair of Measurement and Sensor System** (headed by Prof. Dr.-Ing. habil. Juergen Czarske) offers a position as

### Research Associate

(Subject to personal qualification employees are remunerated according to salary group E13 TV-L)

starting **as soon as possible**. The position entails up to 100% of the fulltime weekly hours and is initially limited for two years with the option of extension. The period of employment is governed by Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz-WissZeitVG). The position offers the chance to obtain further academic qualification.

**Tasks:** The offered position is funded by a third party project from Deutsche Forschungsgemeinschaft (DFG). The aim of the project is the laser based tomographic measurement of the local acoustic impedance of overflowed liners in aero-engines in order to identify the underlying physics to decrease aero-engine noise. The project is conducted jointly with our partner institute German Aerospace Center in Berlin (DLR) and TU Berlin. The tasks within the offered position entail basic research on the sensor principle, the setup of a measurement system as well as the application at our partner institute. Furthermore, your scope of activity involve publications in international research journals, presentations in international conferences as well as supervising Bachelor and Master Students.

**Requirements:** university degree (Masters/Diploma) in electrical or mechanical engineering, physics or similar; experience in Signal processing using Matlab or Python; interest in neural network based signal processing, experience in laboratory experiments, optical engineering (vibrometry, holography) and fluid dynamics advantageous; strong sense of responsibility, analytical thinking, committed and goal-driven way of working.

**We offer:** an experienced, interdisciplinary and international team (over 60 awards and honors within last 10 years); excellently equipped laboratories (e.g. Mfps camera and fs-laser); visits at international conferences and contacts to partners in research and industry; participation in further education and qualification opportunities.

Applications from women are particularly welcome. The same applies to people with disabilities. Please submit your comprehensive application including the usual documents by **31.12.2019** (stamped arrival date of the university central mail service applies) by mail to:

**TU Dresden, Fakultät Elektrotechnik und Informationstechnik, Institut fuer Grundlagen der Elektrotechnik und Elektronik, Professur fuer Mess- und Sensorsystemtechnik, Prof. Dr.-Ing. habil. Juergen Czarske, Helmholtzstr. 10, 01069 Dresden**

or preferably as a single pdf-document to: [grp-mst-sekretariat@msx.tu-dresden.de](mailto:grp-mst-sekretariat@msx.tu-dresden.de) (Please note: We are currently not able to receive electronically signed und encrypted data.) Please submit copies only, as your application will not be returned to you. For Questions regarding the offered position, please contact [Robert.kuschmierz@tu-dresden.de](mailto:Robert.kuschmierz@tu-dresden.de). Expenses incurred in attending interviews cannot be reimbursed.

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**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>