The Cluster of Excellence „Centre for Tactile Internet with Human-in-the-Loop“ (CeTI) offers several positions as

**Research Associate**

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

starting **as soon as possible** and fixed term for three years with the option to be extended (max. up to December 2025). The period of employment is governed by the Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz – WissZeitVG). The positions offer the chance to obtain further academic qualification (e.g. PhD or habilitation thesis). Balancing family and career is an important issue. The posts are basically suitable for candidates seeking part-time employment. Please note this request in your application.

We are looking for candidates with a university degree and if applicable a PhD degree in the respective scientific area with very good English language skills (cluster language), flexibility and the readiness to co-operate in a dynamic and international team.

Applications from women are particularly welcome. The same applies to people with disabilities. Technische Universität Dresden is a certified family-friendly university and offers a Dual Career Service.

Please submit your comprehensive application including the usual documentation by **January 4th, 2019** (stamped arrival date of the university central mail service applies) with the reference „CeTI-position_...“ (as given below) in the subject header preferably S/MIME encrypted by sending it as a pdf document to positions@ceti.one or by mail to:

**TU Dresden, Sprecher des Exzellenzclusters CeTI, Herrn Prof. Frank H. P. Fitzek, Helmholtzstr. 10, 01069 Dresden, Germany.** Please submit copies only as your application documents will not be returned. Expenses incurred in attending interviews cannot be reimbursed.

CeTI is a multidisciplinary cluster. This is why vacancies are presented in the following order:

A) Faculty of Electrical and Computer Engineering
B) Faculty of Computer Science
C) Faculty of Psychology
D) Faculty of Medicine Carl Gustav Carus.

Professors from the respective faculties/chairs will supervise the positions to be filled. More details about the individual positions are given under www.ceti.one/career

**A) Faculty of Electrical and Computer Engineering**

**CeTI-position_Altinsoy_1** – Chair of Acoustics and Haptics

1 Research Associate / PhD Student / Postdoc for haptic feedback for wearables with applications to augmented and virtual reality

**Topic:** Design and development of haptic sensors and actuators (Research room TP2)
CeTI-position_Altinsoy_2 – Chair of Acoustics and Haptics
1 Research Associate / PhD Student / Postdoc for 3D-audio-reproduction and integrative multimodal interface solutions for augmented human–CPS interaction
Topic: Design and development of perceptual audio reproduction systems and multimodal interaction in virtual environments (Research room K3)

CeTI-position_Ellinger_2 – Chair of Circuit Design and Network Theory
2 Research Associates / PhD Students for mm-wave transceiver
Topic: Design of wireless millimetre-wave transceiver chip for tactile on-body communications (Research room TP4)

CeTI-position_Fettweis_1 – Vodafone Chair of Mobile Communications Systems
1 Research Associate / PhD Student / Postdoc for communication, coding, and compression
Topic: Co-design of wireless communications physical layer and control loops in networking with humans-in-the-loop (Research room TP3)

CeTI-position_Fettweis_2 – Chair of Circuit Design and Network Theory
2 Research Associates / PhD Students for mm-wave transceiver
Topic: Design of wireless millimetre-wave transceiver chip for tactile on-body communications (Research room TP4)

CeTI-position_Fitzek_1 – Deutsche Telekom Chair of Communication Networks
1 Research Associate / PhD Student / Postdoc for communication, coding, and compression
Topic: Low latency and resilient communication in meshed networks (Research room TP3)

CeTI-position_Fitzek_2 – Deutsche Telekom Chair of Communication Networks
1 Research Associate / PhD Student / Postdoc for SDN/NFV/ICN
Topic: Software-researched communication networks for the Tactile Internet (Research room K2)

CeTI-position_Jorswieck_1 – Chair of Communications Theory
1 Research Associate / PhD Student / Postdoc for communication, coding and compression
Topic: Transceiver design and resource allocation for low latency and high reliability (Research room TP3)

CeTI-position_Mayr_1 – Chair of Highly-Parallel VLSI Systems and Neuro-Microelectronics
1 Research Associate / PhD Student / Postdoc for system design and application body computing hub
Topic: System design for wearable computing systems (Research room TP4)

Note that further details about the individual positions are given under www.ceti.one/career

B) Faculty of Computer Science

CeTI-position_Baier_1 – Chair of Algebraic and Logical Foundations of Computer Science
1 Research Associate / PhD Student / Postdoc for formal explanation techniques
Topic: Stochastic model-based explanation and causality (Research room TP5)

CeTI-position_Dachselt_1 – Chair of Multimedia-Technology (Interactive Media Lab Dresden)
1 Research Associate / PhD Student / Postdoc for ubiquitous multimodal interaction
Topic: Designing and evaluating smart adaptive interaction and multimodal feedback / feedforward strategies with wearables in ubiquitous settings (Research rooms TP2 and K4)

CeTI-position_Fetzer_1 – Chair of Systems Engineering
1 Research Associate / PhD Student for a safe, secure, and scalable computing infrastructure that enables intuitive tactile interaction
Topic: Designing, building and evaluating a low latency, energy-efficient and secure platform (Research rooms K2 and TP5)
CeTI-position_Gumhold_1 – Chair of Computer Graphics and Visualisation
1 Research Associate / PhD Student for 3D scanning / 3D rendering
Topic: Develop 3D acquisition pipeline for fast and distributed capturing of virtual world model and support of real-time rendering for augmented reality technologies (Research room TP5)

CeTI-position_Strufe_1 – Chair of Privacy and Data Security
1 Research Associate / PhD Student for sensing/collection of data
Topic: Building demonstrators and evaluating the effect of CeTI technologies to promote skill acquisition (Research rooms U3 and K2)

Note that further details about the individual positions are given under www.ceti.one/career

C) Faculty of Psychology

CeTI-position_Kiebel_1 – Chair of Neuroimaging
1 Research Associate / Postdoc for computational neuroscience
Topic: Computational modelling of sequences of goal-directed actions and multisensory integration (Research rooms TP1 and K4)

CeTI-position_Li_1 – Chair of Lifespan Developmental Neuroscience
1 Research Associate / Postdoc for human multisensory perception
Topic: Psychophysical and neural mechanisms of goal-directed multisensory perception (Research room TP1)

CeTI-position_Li_2 – Chair of Lifespan Developmental Neuroscience
1 Research Associate / PhD Student / Postdoc for augmented perception and action
Topic: Age and individual differences in perception and action in augmented and virtual reality (Research rooms TP1 and K3)

CeTI-position_Narciss_1 – Chair of Psychology of Learning and Instruction
1 Research Associate / Postdoc for skill acquisition and learning
Topic: Skill acquisition and learning with CeTI technologies (Research rooms TP1 and U3)

CeTI-position_Pannasch_1 – Chair of Engineering Psychology and Applied Cognitive Research
1 Research Associate / Postdoc for human–cyber-physical systems interaction
Topic: Fundamental mechanisms governing interactions between humans and CPS (Research room K3)

Note that further details about the individual positions are given under www.ceti.one/career

D) Faculty of Medicine Carl Gustav Carus

CeTI-position_Weitz_1 – Chair of Visceral, Thoracic and Vascular Surgery
1 Surgical Resident / Research Associate for robotic-assisted surgery (Research room U1)
Topic: Robotic-assisted skill acquisition in surgery and context-aware assistance

Note that further details about the individual positions are given under www.ceti.one/career

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