MD Position in the interdisciplinary Research Training Group (RTG) 2543
(Intraoperative multi-sensor tissue identification in oncology)

Project C2: Validation of spectroscopic tissue differentiation technologies in Gynaecology (1 year scholarship)

New surgical methods aim to minimize invasiveness, morbidity and duration of the treatment while maximizing the effectiveness. During these surgical interventions, a reliable identification of target structures and surrounding tissue is of major importance for achieving this objective, particularly in the field of oncology. The RTG focuses on intraoperative tissue identification. The fusion of novel multimodal sensor systems by means of machine learning offers a high potential for new procedures to discriminate between tissues that goes beyond the information content of the separate sensor data. Please find more information here https://www.isys.uni-stuttgart.de/en/research/medicalEngineering/.

The aim of the project C2 is to develop methods for discriminating different tissues based on spectroscopic technologies. To analyze and standardize intraoperative tissue differentiation, methods will be explored on solid tissue down to single cell level.

Expected qualifications

- Interest, knowledge and experience in the fields of gynecology and obstetrics
- High self-motivation, creativity, research and team spirit
- Interdisciplinary exchange: Participation in workshops, seminars and symposium
- Sabbatical in the study program is mandatory

Scholarship
The scholarship will payed for 1 year.

Starting Date
1 April 2020

The application deadline ends by 31 January 2020.
The workplace will be in Tübingen, Department of Women’s Health.

Applications (in German or English) including informative documents, a cover letter, signed CV, copies of earned university degrees, and transcripts of individual grades are to be sent in digital form (one pdf document) to

Prof. Dr. Sara Brucker
Sara.brucker@med.uni-tuebingen.de
and
miriam.linneweh@med.uni-tuebingen.de

The University of Tübingen wants to increase the proportion of women in the scientific field. Therefore, women are explicitly asked to apply. Full-time positions are fundamentally divisible. Handicapped applicants will be given preference if equally qualified. Information on handling applicant data can be found at https://uni-tuebingen.de/einrichtungen/verwaltung/vi-personal-und-innere-dienste/personalabteilung/datenschutz-bei-bewerbungen/