The DFG-funded collaborative research centre/transregio 298 "Safety-Integrated and Infection-Reactive Implants" (SIIRI) awards 28 research fellowships for the integrated research PhD/MD-programme

- in either natural sciences, e.g. chemistry, biochemistry, biology, physics
- social sciences, e.g. communication
- or engineering sciences, e.g. mechanical, electrical engineering,
- as well as MD candidates in medicine or dentistry

The SIIRI research consortium is dedicated to a fundamentally new and internationally unique strategy in implant research, based on years of close cooperation between dentists, medical doctors, and natural, social and engineering scientists from four universities (Hannover Medical School (MHH), Leibniz University Hannover (LUH), Hannover University of Music, Drama and Media (HMTMH), Technical University of Braunschweig (TUBS)) and the Helmholtz Centre for Infection Research (HZI), under the umbrella of the Lower Saxony Centre for Biomedical Engineering, Implant Research and Development (NIFE).

Within this program, smart implant systems will be developed through the scientific use of safety-relevant concepts from the engineering sciences. This will for the first time enable continuous monitoring of medical implants. For the early detection of implant complications, such as implant-associated infections, chemical, biological and physical detection systems will be developed. The new systems developed in this interdisciplinary consortium and the co-generated data will converge into an implant lifecycle management system and in the long-term will lead to an improved prognosis for medical implants.

We offer
- Structured 3-year PhD /1-year MD-programme integrated in a highly interdisciplinary and innovative research environment.
- A modern, individual curriculum with defined milestones and overarching learning outcomes in accordance with the European framework for research careers.
- An interdisciplinary mentoring team supporting individual career paths (research, academic and industry).
- Insights into implant research and implant life cycle management, from basic research to clinical application, patient and science communication.

We expect
- Excellent Master degree in one of the disciplines of SIIRI / candidates in medicine or dentistry.
- CV highlighting previous achievements.
- A convincing motivation letter explaining your scientific interests and career goals in the research network. Please indicate your interest in at least one of our PhD/MD-projects.

Please follow the link for further information.

https://mhh.hr4you.org/job/view/903/28-phd-md-research-fellows-f-d...
We look forward to receiving your application electronically as a single PDF document to trr298@mh-hannover.de by 03.08.2021. Please direct any questions to this address.

We will provide you with cooperative initial trainings and development opportunities as well as an extensive health program for employees. In addition, we offer reliable family support and there is a day care center for children including emergency childcare. Furthermore, you will find the usual social benefits of the public service. Applications of all backgrounds are welcome because at SIIRI we are convinced that complex tasks can be completed by heterogeneous teams at its best. Diversity is inscribed in our strategy.

You have any questions beforehand?

Dr. Nadine Kommerein
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Apply now

Reference number 903
Apply until: 08/20/2021

Hannover Medical School (MHH), with around 10,000 employees the largest state enterprise in Lower Saxony, is a university institution for research and teaching in human medicine and dentistry and a university hospital of supramaximal care. Research, teaching, patient care and administration work hand in hand in the integration model on the MHH campus.