

Meet Siemens Healthineers

Siemens Healthineers: Our brand name embodies the pioneering spirit and engineering expertise that is unique in the healthcare industry. The people working for Siemens Healthineers are totally committed to the company they work for, and are passionate about their technology. In this section we introduce you to colleagues from all over the world – people who put their hearts into what they do.

Zahra Hosseini, Ph.D.

Zahra Hosseini obtained a bachelor's degree in engineering from McMaster University in Hamilton, Ontario, Canada. She then completed an M.Sc. in biomedical engineering in the field of virtual reality and image-guided surgery. Zahra earned her Ph.D. at Western University, in London, Ontario, Canada, where she focused on ultrahigh-field MRI signal processing and developed multi-parametric imaging techniques for brain and cardiac applications. Following her Ph.D., she joined the MR Collaboration team at Siemens Healthineers in the United States, working with some of our leading collaboration partners in translational research and development. Zahra contributed to one of our latest Deep Resolve products: Deep Resolve Swift Brain. She moved to Germany in 2022 and became the global product marketing manager for one of our newest MRI platforms, the MAGNETOM Free. Platform. In this role, Zahra is helping bring a novel field strength into core and new imaging environments.



How did you first come into contact with MRI?

When I finished my master's in biomedical engineering, which involved creating a virtual reality system for image-guided therapy, I knew I wanted to pursue a doctorate degree, but it had to be in a field I knew little about. Magnetic resonance imaging was always a fascinating topic for me: as an engineer, I loved taking things apart and reverse engineering them to learn. I needed something that was visible to my eyes to learn about it. Physics and quantum mechanics were a whole new beast, though – and definitely worth spending four years of my life on for my Ph.D.!

What do you find most motivating about your job – and what are the biggest challenges?

From a scientific standpoint, I find it fascinating and exciting to be able to revisit low field and leverage the software and hardware innovations at Siemens Healthineers to deliver unmatched clinical performance. To work with a solution that also promises to simplify access for every patient globally in an innovative and unmatched way is icing on top of the cake for me. It feeds my ambition and drive to make a difference on a bigger scale.

What do you think are the most important developments in healthcare?

Providing timely diagnostic answers to our patients is of huge value and enables every patient to make better

decisions – whether they're considering a course of treatment, healthier lifestyle habits, or simply their life plans. And of course, outside of diagnostics, tremendous work is being done on developing appropriate treatments, effective and efficient therapy delivery, and easier ways for each of us to make better and healthier life choices. Perhaps the most important development in healthcare is awareness and access to information.

What would you do if you could spend a month doing whatever you wanted?

I would teach science and engineering in a remote location where I'm unfamiliar with the culture and language. That way, I'll also learn something new as I teach.

Where do you think this field is headed?

When you add the open 80-cm bore of the MAGNETOM Free.Max to its unique field strength and the various features that enable its easy integration into an existing infrastructure, you cannot help but start thinking outside of the box – moving away from routine diagnostics to explore new possibilities with radiation therapy planning, which is now an available possibility after the MAGNETOM Free.Max RT Edition was launched at ASTRO this year, to MRI-based interventional procedures, an area which is already of great interest amongst our active research users. I'm really excited to be part of this movement in building the future of imaging and therapy with MRI.