



MRI Physicist

The Basics

- This is a full-time position.
- We will show preference for candidates that are located in the Greater Toronto Area and available to work in-office as needed.
- Work hours are flexible, but meetings are typically scheduled between 9 am and 6 pm Eastern Standard Time.
- We will share the salary range for this position during the intro call. You can see all of the stages of our interview process on our career page [here](#).
- The hiring manager for this position is Martin Gajdošík, and you can see his LinkedIn profile [here](#).

In this role, we'll expect you to:

- Develop and maintain DSP methods and software for our benchtop MRI system.
- Develop advanced non-cartesian K-space sampling acquisitions.
- Develop undersampled K-space reconstruction techniques, such as compressed sensing and neural networks.
- Develop and optimize MRI pulse sequences.
- Develop 3D MRI field mapping techniques and implement automatic shimming algorithms.
- Interface with scientists and engineers, ensuring MRI data and software meet department-specific needs.

You might be right for this role if you have:

- Proficiency in writing efficient, clean, and documented code in MATLAB and Python.
- Proven experience in designing and implementing both uniform and non-uniform K-space sampling and reconstruction techniques in a research or industry setting.
- Ability to present complex technical information in a clear and concise manner to a non-technical audience, including high-level stakeholders.
- Openness to learning from subject matter experts from other disciplines.
- Ph.D. in biomedical engineering, medical physics, computer science, or related scientific field.

Additional Details

About Synex Medical

Synex Medical was founded by CEO Ben Nashman in 2017 with a simple yet powerful vision - to provide individuals with real-time insights into their body's day-to-day functioning.

Since then, we've been on a mission to revolutionize healthcare by making predictive health monitoring the norm. Our compact, non-invasive device, powered by miniaturized magnetic resonance technology, will enable real-time monitoring of critical metabolites such as glucose and lactate and empower individuals to take control of their health.

We're supported by VC firms such as [Accomplice](#) and [Radical Ventures](#), and we're headquartered in Toronto, Ontario. We hire employees in both Canada and the United States. In the U.S., most of our employees are located near the Boston area.

We value excellence, ambition, curiosity, accountability, and communication in our workplace culture, and we seek exceptional colleagues who put the team first and deliver outstanding results.

For us, stellar performance matters more than the amount of hours you work. We appreciate self-motivated, self-aware individuals who act like leaders and embrace the freedom and responsibility of our working environment.

Benefits

We're proud of the benefits package that we offer to employees, and we'll be expanding it further as we grow. It currently includes:

- Health, dental, and vision insurance - employee premiums are 100% paid for by Synex
- Flexible time off - No annual limits on vacation or sick time, with a 3-week vacation minimum each year
- Parental leave - 6 months fully paid leave for birthing, non-birthing, and adoptive parents
- Professional development reimbursement - up to \$1,500 each year

Equal Opportunity

We believe that excellence isn't defined solely by qualifications, but also by the potential for growth and meaningful impact. Many highly capable individuals, especially those who identify as women or gender-nonconforming, may underestimate their abilities.

We encourage you to consider applying for this role if you believe you have the skills, experience, and passion to excel, even if you don't meet every single qualification. To assist you in this process, we recommend closely assessing your alignment with each job requirement rather than relying solely on your overall impression of the job. Your unique background, skills, and experiences could be a key to our success, so please don't let self-doubt hold you back.

And just to make it extra clear - we are an equal-opportunity employer. We value the collaboration of people with diverse ideas, experiences, and points of view. A diverse team makes Synex an exciting and creative place to work, and we welcome individuals from all walks of life.

All of our hiring choices are strictly based on business needs, job qualifications, and individual abilities, rather than any [protected characteristics](#).

If you require accommodations for a disability during the interview process, please fill out our accommodations request form [here](#). Your information will remain confidential and be used solely to determine appropriate accommodations for the interview process.

Apply Here:

<https://careers.synexmedical.com/jobs/3586657-mri-physicist?promotion=902087-trackable-share-link-ismrm>