

## Recruitment of Doctoral Students and Post-doctoral Research

Positions (up to one Post-doctoral researcher and 2 Ph.D. students) are expected to be available from NIH funded projects. Positions could be available in January 2021.

With the collaborative efforts by the Michigan Technological University (Biomedical Engineering, Applied Computing, and Math), University of Wisconsin (Medical Physics, Neurosurgery, and Radiology), and University of Michigan (Neurosurgery and Radiology), we focus on data analytics of cancer and cardiovascular disease. We are looking for candidates to take an active part in image-based numerical/signal analysis, finite element modeling, and machine learning. Those positions offer opportunities for integrating engineering, applied math, and computer science with medicine and medical imaging.

### Qualifications:

Post-doctoral researcher and doctoral students -- The qualified candidate should be highly motivated, with strong interests in computer programming. Strong background in one of the following fields is needed: Computer Science, Electrical/Computer Engineering, Biomedical Engineering, Applied/Computational Math, Computational Mechanics/Physics, or related fields.

At least one of the following areas below is required.

- Experience in machine learning, particularly, deep-learning-based artificial intelligence
- Modeling skills using finite element/finite difference/finite volume
- Experience in medical imaging processing
- Strong programming skills with Python, Matlab, or C++
- Experience in optimization, particularly numerical solution of optimization problems

To Apply: Please email your CV and cover letter describing your background to:

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