

## Postdoctoral Fellow at the University of Notre Dame

### In AI-based Medical Image Analysis for Surgical Systems and Applications

We are currently seeking an excellent postdoctoral fellow for conducting cutting-edge research on AI-based medical image analysis in the development of novel surgical systems and applications.

The research project will be a part of a large collaborated effort with leading companies and multiple best universities in the US, working closely with surgeons and computer science and biomedical engineering researchers. We aim to develop novel AI-based methods for real time medical image analysis tasks (e.g., segmentation, classification, tracking, and registration) on surgical images and videos with very sparse annotation based on new imaging modalities.

Salary will be competitive and negotiated according to prior experiences. The candidate should have a PhD in Computer Science, Computer Engineering, or related fields, with particular expertise in machine learning, image analysis, and/or computer vision. Experiences in medical image analysis and state-of-the-art deep learning (e.g., large foundation models) are desirable. The candidate should have a track record of international publications and a strong ability to conduct independent research as well as working with interdisciplinary researchers. Fluency in written and spoken English is essential. The successful candidate will also have opportunities to contribute to supervising graduate students. The expected starting time of the postdoctoral fellow is **August 2024**.

For consideration, please send a cover letter, CV, and three or four representative publications through emails.

**Contact Person:** Prof. Danny Chen ([dchen@nd.edu](mailto:dchen@nd.edu)), Department of Computer Science and Engineering, the University of Notre Dame.