Artificial Intelligence Data/Computer Scientist

Children’s Hospital Medical Center (CCHMC) is a premier pediatric research institution. We are driven by our mission to improve child health and transform the delivery of care through fully integrated, globally recognized research, education, and innovation. Our image-based Artificial Intelligence (AI) core at CCHMC is a multi-disciplinary infrastructure that aims at supporting enterprise-wide image-based AI research and clinical translation through developing and clinically translating state-of-the-art AI tools. Our cross-disciplinary team has multiple machine learning projects utilizing multimodal image-types, as acquired by Radiology, Cardiology, Pathology, Endoscopy and Dermatology, among others, to automate medical image classification, segmentation/detection, risk assessment, patient triage, disease prognosis/diagnosis, and to integrate these endeavors into the CCHMC clinical workflow. We are now seeking talented and industrious AI Data/Computer Scientists to join us.

**Representative Responsibilities**

1. Design, develop, and implement state-of-the-art AI techniques; reproduce and apply existing algorithms/methods/models for medical applications.
2. Innovate and advance AI techniques; evaluate and improve AI algorithms/methods/models currently used.
3. Establish and validate algorithms/methods/models to create clinically meaningful AI tools that involve medical images.
4. Assist with clinically translating AI tools from the “bench to the bedside”.
5. Assist with image data curation, processing, and analysis; create and maintain optimal data pipelines by conducting regular quality and reproducibility checks.
6. Assist with developing and deploying AI educational workshops/seminar series for CCHMC clinical and research faculty/staff to accelerate AI adoption.
7. Communicate results/findings; draft and edit scientific abstracts, presentations, and journal articles. Present work at workshops, seminars, and conference proceedings within and outside of CCHMC.

**Education/Experience**

**Required:**

- MS or PhD degree in computer science, biomedical engineering, bioinformatics, electrical engineering, or related field.
- Extensive experience in machine learning and deep learning development using Scikit-learn, deep learning package (e.g., Tensorflow, Keras, PyTorch).
• Strong communication skills in written and verbal English, and ability to work both independently and as a team member to accomplish core objectives.

Preferred:

• Medical image research experience.
• Biomedical statistical analysis experience.
• Strong programming skills with Linux-based Python and familiarity with containerization.
• Multiprocessing experience using GPUs for training and inference.

Cincinnati Children’s Hospital offers competitive compensation and a comprehensive employee benefits program.

For consideration, please apply online at Cincinnati Children's Careers.

CCHMC is an Equal Opportunity Employer. Qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, age, genetic information, physical or mental disability, military or veteran status, sexual orientation, or other protected status in accordance with applicable federal, state, and local laws and regulations.