

# Radiology in the Multi-Cloud

## **Project Logistics:**

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Min-max team size: 2-4

Expected project hours per week (per team member): 6-8

Will the project be open source: yes

## **Preferred Past Experience:**

OpenShift/Kubernetes Nice to have

Docker Nice to have

Python Valuable

## **Project Overview:**

### *Background:*

Today, medical image processing often happens behind closed doors without a lot of sharing or collaboration. This has resulted in a variety of slow and complex systems that are often bespoke to each hospital or research facility.

The ChRIS (Children's Research Integration System) project's goal is to provide a standardized platform for medical image processing. It's doing so in collaboration with the MOC and Red Hat using technologies such as OpenStack and OpenShift/Kubernetes with the end goal of democratizing image processing and making the results clinically relevant.

### *Project Specifics:*

The goal of this project is to enable ChRIS to be able to communicate with multiple datacenters where each datacenter will have its own list of available image processors. The project will include the implementation, testing, and deployment of the project into a production or preproduction environment.

More details about ChRIS on the MOC

## **Some Technologies you will learn/use:**

Software Engineering (python, git, agile, etc)

OpenShift/Kubernetes/Docker

Continuous Integration (likely with Jenkins)

