Post- Doctoral Researcher Position: Predicting cardiovascular events using machine learning
University of Sao Paulo

Job Title	Post- Doctoral Researcher Position: Predicting cardiovascular events using machine learning
Department	Ribeirao Preto Medical School
	https://rio.fmrp.usp.br/
Institution	University of Sao Paulo
	Ribeirao Preto, Sao Paulo, Brazil
Date Posted	Feb. 4, 2025
Application Deadline	Feb. 28, 2025
Position Start Date	Apr. 1, 2025
Job Categories	Post-Doc
Academic Field(s)	Computer/Information Sciences
Job Website	https://www.fmrp.usp.br/en/
Apply By Email	pmarques@fmrp.usp.br

Job Description

We seek candidates to work with federated learning to validate machine learning models trained in different hospital networks. Candidates must have an undergraduate degree in biomedical informatics, computer science, information systems, or a related field and a postgraduate degree, preferably in Computer Science, Biomedical Engineering, or a related field. The scholarship is worth R$12,000.00 per month, with a duration of up to 12 months. The postdoctoral research will be developed at the Hospital das Clínicas of the Ribeirão Preto Medical School. More information about the research project at https://precareml.github.io/index and https://bv.fapesp.br/en/auxilios/110451/predicting-cardiovascular-events-using-machine-learning/

Responsibilities:

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- Cohort organization and data standardization according to OMOP-CDM

- Implementation, adaptation, validation, and integration in a clinical environment of an ML model using federated learning (Nvflare)

Submission:

Email pmarques@fmrp.usp.br with the subject line: "Selection for Post-Doc scholarship: PRE-CARE ML Project."

The following must be attached to the email:

- The candidate's CV, indicating their education, scientific production, projects in which they participated,

- A letter of recommendation,

- A brief statement of interest in the research, highlighting their skills related to the research topic.

Required practical knowledge and skills: Nvflare; AWS or Google Cloud; BigQuery; Docker; Kubernetes; Python; R; SQL; TensorFlow; PyTorch; sci-kit-learn; PostgreSQL; MySQL; MongoDB; DevOps; Seaborn; Ubuntu 18.04 or higher; VPN.

EEO/AA Policy

University of Sao Paulo (USP) is committed to equal employment opportunity and affirmative action. It is the policy of
USP does not discriminate against any applicant for employment or employee because of age, color, sex, disability, national origin, race, religion, or veteran status.

Contact Information

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