Postdoc scholarship in
Computer Science / Electrical and Computer Engineering

For the past two decades, we have witnessed a deluge of data from distinctive sources such as social media, sensors and mobile devices such as smartphones. Such ever-increasing data production is expected to reach the order of 20 Zetabytes by the year 2020. Nonetheless, it is estimated that only 1% of the whole data generated is actually processed and transformed in useful information. In addition to its sheer volume, big data also exhibits other unique characteristics as compared with traditional data. For instance, big data is commonly unstructured and requires more real-time analysis. Big data has been characterized by its traditional 3V´s: volume, velocity and variety but many other Vs can be added to traditional characterization of Big Data. Such characteristics bring demands and calls for new system architectures for data acquisition, transmission, storage, and large-scale data processing.

The project Communications and processing of Big Data in clouds and fogs (Comunicação e processamento de big data em nuvens e névoas computacionais), BIG Cloud, aims at developing new architectures and mechanisms to empower communications and processing infrastructure for the evolution of Big Data processing.
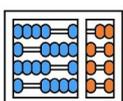
This project is sponsored by São Paulo Research Foundation – FAPESP (project number 15/24494-8) and involves several universities and researchers.

More information: https://bigcloud.ic.unicamp.br/

Abstract

The Institute of Computing of the University of Campinas (UNICAMP) in Brazil offers a Postdoctoral position to work with research and development of a server to provide information on network and radio resources at the edge, and will use the Mininet-WiFi emulation platform as the experimentation environment of IoT scenarios. This project is financed by the São Paulo Research Foundation (FAPESP).

Candidates must have a PhD in Computer Science or related fields, and must have experience with wireless networks, Python programming, virtualization, edge computing, Network Function Virtualization (NFV), and Software Defined Network (SDN). The selected candidate will work in collaboration with academic teams from the Institute of Computing (IC) and the Faculty of Electrical and Computer Engineering (FEEC) at UNICAMP.

This opportunity is open to candidates of any nationalities. The selected candidate will receive a FAPESP's Postdoctoral fellowship in the amount of R$ 7,373.10 monthly and a research contingency fund, equivalent to 15% of the annual value of the fellowship which should be spent in items directly related to the research activity.

How to participate

Interested candidates must register with:

- Presentation letter;
- Curriculum vitae; and
- Two letters of recommendation, and must be submitted by October 31, 2020, by e-mail sent to nfonseca@ic.unicamp.br (Subject: BIG Cloud PD FAPESP).
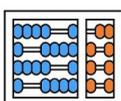
Additional Information

Eligibility criteria: Ph.D. in Computer Science or related areas. If you have any questions, send an email to Professor Nelson Luis Saldanha da Fonseca (nfonseca@ic.unicamp.br) and/or to Professor Christian Esteve Rothenberg (chesteve@dca.fee.unicamp.br).

Selection process: it will be based on the motivation of the proposal, letters of recommendation, curriculum vitae with list of publications, training and experience, and copy of the University Degree certificate (s). The interview with the finalists will take place via videoconference.

Information about the City of Campinas

- Institute of Computing: https://youtu.be/3vTOvjCbIiY
- School of Electrical and Computer Engineering: https://youtu.be/UIDYUhFEU10
- University of Campinas (UNICAMP) https://en.wikipedia.org/wiki/University_of_Campinas
- Campinas, the most surprising city in Brazil: https://youtu.be/nool_9y02vE

Location: Albert Einstein Avenue, 1251 - University City, Campinas - SP, 13083-852
https://goo.gl/maps/EZD47UsGuLM1mffEA