

VOCALIZE
Speech and Language Technology Solutions

VOCALIZE – *Speech and Language Technology Solutions* is offering 3 job positions for Researchers/Developers on Automatic Speech Recognition. These Researchers/Developers will be joining a multidisciplinary team of 16 other Researcher/Developers (among Engineers, Computer Scientists and Computational Linguists).

VOCALIZE is a *spin-off* from the State University of Campinas, SP, Brazil, working on the development of core technologies for high quality TTS and ASR system with focus on Portuguese and Spanish Languages.

VOCALIZE is located in Campinas, a Brazilian medium size city just 80Km far from São Paulo City (the major city in Brazil). Campinas is also considered a city with one of the best Brazilian quality of life. Moreover, the VOCALIZE research lab is located just 2 kilometer from the State University of Campinas (UNICAMP) which is considered one of the best Brazilian Engineering Schools.

Job Title: Electrical Engineer or Computer Scientist

Professional: Electrical Engineer or Computer Scientist with PhD or Master degree on Speech Recognition.

Job description: Responsible for acoustic feature extraction, acoustic modeling and acoustic adaptation.

Required skills:

- Advanced knowledge of digital signal processing and statistical pattern recognition;
- Good software skills in C/C++, Python and Matlab.
- Advanced knowledge of Stochastic Digital Signal Process, linear and non-linear programming, hidden Markov model (HMM), classification and regression trees, neural networks.
- Good communication skills either in English or Portuguese or Spanish

Preferred skills:

- Knowledge of HTK, SPHINX and other speech recognition toolkits;
- Experience of working in a multidisciplinary team of Engineers, Computer Scientists and Computational Linguists

Job Title: Computational Linguistics

Professional: Computational Linguist, Computer Scientist or Electrical Engineer with PhD or Master Degree on Speech Recognition or Text to Speech Synthesis;

Job description: Responsible for research/development of Language Models applied to Automatic Speech Recognition.

Required skills:

- Proficiency in C/C++, Java and Python.
- Solid knowledge on Statistical Computational Linguistics applied to speech technology (Speech Recognition and Text to Speech Synthesis).

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- Advanced knowledge in lexicography, phonetics, phonology, syntax and semantics applied to speech recognition system.
- Good communication skills either in English or Portuguese or Spanish

Preferred skills:

- Knowledge of HTK, SPHINX and other speech recognition toolkits;
- Experience of working in a multidisciplinary team of Engineers, Computer Scientists and Computational Linguists

Job Title: Computer Scientist or Electrical Engineer

Professional: Computer Scientist or Electrical Engineer with PhD or Master Degree on Speech Recognition.

Job description: Responsible for the development of search algorithm for speech recognition decoding.

Required skills:

- Proficiency in C/C++ and Java;
- Advanced knowledge of main search techniques applied for speech recognition decoding;
- Knowledge of communication protocols such as MRCP and SAPI;
- Experience with voice XML and SGRML;
- Good communication skills either in English or Portuguese or Spanish

Preferred skills:

- Knowledge of HTK, SPHINX and other speech recognition toolkits;
- Experience of working in a multidisciplinary team of Engineers, Computer Scientists and Computational Linguists