



UNIVERSIDAD TÉCNICA
FEDERICO SANTA MARÍA

CALL FOR POSTDOCTORAL RESEARCH POSITION

The Department of Electronic Engineering at Universidad Técnica Federico Santa María (USM), in Valparaíso, Chile, is offering a **postdoctoral research position in the field of distributed optical fibre sensing and machine learning**. USM is one of the most prestigious universities in Chile and Latin America, being ranked #1 in Latin America in Electronic & Electrical Engineering and in Automation & Control, according to the ARWU Shanghai Ranking by Subject 2019.

The research group in optical fibre sensing has active research activities in several academic and industrial projects -many with vast international collaborations- related to different fibre sensing technologies. The selected candidate will join a multidisciplinary research team composed of academic and industrial partners in the framework of an R&D FONDEF-ANID project focused on fibre-optic distributed acoustic sensing for earthquake monitoring using machine learning techniques.

Requirements

1. Doctorate degree in Electrical or Electronic Engineering, Telecommunication Engineering, Photonics Engineering, or related fields; obtained no earlier than January 2015.
2. In-depth knowledge in at least one of the following fields: digital signal processing, machine learning, optoelectronics, and fibre optics. Willingness to learn about all these subjects.
3. Hand-on lab experience in data acquisition, signal processing, and/or optical fibre systems.
4. Good written and spoken English knowledge.
5. Team-oriented, independent work style.
6. Available from early 2021. Flexibility for foreign nationals who require to apply for work visa.

Required Documents

1. Cover letter stating experience and motivation of the candidate.
2. Curriculum Vitae, including a full list of publications.
3. A copy of the PhD degree certificate.
4. Contact details of at least two academic references (recent supervisor is encouraged), who may be contacted for reference letters.

Important Information

1. The postdoctoral research position is initially for two years (evaluated on a yearly basis).
2. Salary according to the experience level.
3. Required documents should be provided in English in a single PDF file.
4. Deadline to submit applications: **November 30, 2020**, but the call will remain open until the position is filled.
5. Applications should be sent to concursos.elo@usm.cl, with copy to marcelo.sotoh@usm.cl, with the subject **FONDEF Postdoctoral Application**.
6. Further enquiries can be addressed to Prof. Marcelo Soto at marcelo.sotoh@usm.cl

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