

The Fraunhofer Institute is the largest organization for applied research in Europe with its 69 institutes plus research units. Fraunhofer Chile Research (FCR) is the only legal representation of Fraunhofer in Latin America whereas the Center for Solar Energy Technologies (CSET) was established in 2015 in Santiago de Chile with a close collaboration to the Fraunhofer Institute for Solar Energy Systems (ISE) in Germany.

In the research line Photovoltaic Systems we are looking for a student for at least 3 month or more for the following topic:

Internship “Technical-Economical Optimization of Agriculture + Photovoltaic (APV) concept in Chile”

Photovoltaic Systems, Center for Solar Energy Technology (CSET), Santiago, Chile

Description working environment:

Fraunhofer is giving you an exciting work environment bridging the areas of applied research and industrial demand. We are focusing on providing innovative and high-quality solutions and advanced research services in order to support Chile’s development towards a solar economy. You will work in a motivated and excellent team of about 10 researchers plus students in the Angelini Innovation Center on Campus San Joaquin of the Catholic University. You will work on the development of the concept APV in Chile, which facilitates the production of electricity by photovoltaic modules installed in the altitude and agriculture below the photovoltaic plant at the same time. CSET is supervising the operation and monitoring of three pilot plants in the Region Metropolitana which are serving for R&D and demonstration of the APV concept. For more information see <https://www.smart-agropv.com/>.

Your Tasks:

- Technical-economical optimization of the mechanical structure of APV concept (pilot plants)
- Technical-economical study of the PV technologies (generation of a database)
- Support in the development of an electrical yield model
- Support in the development of a parameterized costing tool

Position requirements:

- Enrolled student of the area mechanical/civil engineering or equivalent education
- Good knowledge in a Civil Engineering Structural Analysis And Design Software Tools
- Ideally basic skills in economics and solar electricity
- Basic skills in programming (preferred Python)
- Good knowledge in English is preferred (work language is in Spanish and English)
- Good knowledge in MS Office

Salary:

Depending on study degree and amount of working hours

Monthly hours:

Part time or Full-time (40 hours a week)

Starting date:

January 2019

Contact person:

Further questions about this position can be respond by Patricia Gese, email:
patricia.gese@fraunhofer.cl

To apply send your CV and motivation letter by email before 30th of November 2018 to:
Blas Diaz, e-mail: blas.diaz@fraunhofer.cl with the subject “MSS APV Application 2018”