

Postdoctoral Fellow positions

The Solar Energy Research Center (SERC Chile, www.sercchile.cl), was created in 2012 by the Chilean Government as a center of excellence in solar energy research. The Center is a consortium integrated by seven Chilean Universities (Universidad de Chile, Universidad de Tarapacá, Universidad de Antofagasta, Universidad Técnica Federico Santa María, Universidad Adolfo Ibáñez, Universidad de Concepción, and Pontificia Universidad Católica de Chile) and Fraunhofer Chile, and host around 100 researchers, students and staff. The Center aims to be a world leader in basic and applied research on solar energy technology and applications, with a particular emphasis on developing the potential of Chilean Atacama Desert, one of the prime locations in the world for the study and development of solar energy. To promote collaborative research and increase impact, SERC Chile has defined four strategic research focuses:

1. Massive integration of large-scale solar energy to the electric interconnected systems
2. Solar energy based mining in Chile
3. Development and widespread adoption of small-scale solar solutions
4. Optimization and characterization of materials and solar resource under local conditions

To contribute to these research focuses **SERC is calling four postdoctoral fellow** positions, one in each of the following research lines:

1. Energy systems: including the modeling of planning and operation of macro regions and the study of the impact of solar power on them.
2. Power electronics and energy conversion: research and development of power converter topologies and control, including storage, to enable solutions for the 4 research focuses.
3. Sustainable development: research on economic, regulatory and social issues related to higher penetration rates of solar energy.
4. Control systems & industrial processes: including the modeling of mineral processing and solar energy systems; optimization of energy efficiency in mining operations.

IMPORTANT INFORMATION

- Applicants must have possession of PhD or Doctorate degree at the moment of application.
- The postdoctoral fellowships are up to three years.
- Required documents should be provided in English in a single PDF file.
- Selected applicants are expected to live in Chile and join one of the research lines and institutions belonging to the consortium.
- Selected applicants are expected to produce visible and high quality scientific results (publications, research grants, projects with industry, research networks)
- Selected candidates are expected to join SERC no later than July 2018.
- Application deadline is March 1, 2018.
- Applications should be sent to psilva@centroenergia.cl and rodpalma@cec.uchile.cl with subject SERC POSTDOCTORAL APPLICATION 2018.



Required Documents

1. Cover letter explaining your interest in becoming part of SERC Chile
2. Updated Curriculum Vitae, including a list of publications
3. Documentation accrediting the possession of a PhD or Doctorate degree
4. Contact details of at least two referees, that may be contacted for a reference letter

For more details about SERC Chile, please visit the web page: www.sercchile.cl. Further enquiries can be sent to psilva@centroenergia.cl and rodpalma@cec.uchile.cl