

PAUL SCHERRER INSTITUT



PSI is recruiting a

# Postdoc

to work on a mobility project INTERCHARGE - Secure Integration of the Future E-mobility Charging Infrastructure with the Electricity Grid

# Postdoc @ PSI

to work on a mobility project, *Secure Integration of the Future E-mobility Charging Infrastructure with the Electricity Grid*

## Your tasks will include the following:

- Establishing a method to regionalise Swiss passenger mobility
- Expansion of the existing Swiss TIMES Energy system Model (STEM) with detailed regional mobility patterns
- Modelling of e-mobility charging infrastructure, including a proxy for the representation of the electricity network
- Performing long-term scenario analyses scoping on the transition to electricity-based passenger mobility with explicit consideration of grid implications
- Publishing research results in scientific journals and to diverse audiences

## Your profile includes some or all of the following:

- Ph.D. degree in mechanical/electrical/energy/environmental engineering (or similar subject) with good publication track record
- Good understanding of techno-economic characteristics of energy technology (e.g., e-mobility)
- Solid background in energy economic modelling and optimisation tools; preferably proficient use of TIMES or an equivalent modelling framework
- Excellent writing, organisation, and communication skills
- Proficient English language skills are essential, and knowledge of the German language is an additional benefit

For further information, please contact Kannan Ramachandran via [kannan.ramachandran@psi.ch](mailto:kannan.ramachandran@psi.ch) phone +41 56 310 2864, <https://www.psi.ch/en/eem>