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