

Proiect : *Emerging Two-phase Expansion Power Generation Technology – Unlocking the Potential of Geothermal and Industrial Waste Heat Utilization (EMPOWER)*, HORIZON Europe, Nr. 101192974

Post : inginer chimist (doctorand)

Tematica:

Tehnologii de stocare a energiei, evaluarea impactului asupra mediului, analiza ciclului de viață bazată pe metodologia LCA, Ciclul Organic Rankine (Organic Rankine Cycle (ORC)), ORC cu evaporare parțială, turbine bifazice, simularea proceselor folosind simulatoare de proces (CHEMCAD, Aspen, Matlab/Simulink, etc.).

Bibliografia:

M. A. Curran, Life Cycle Assessment Handbook: A Guide for Environmentally Sustainable Products, Willey, 2012.

E. Macchi, M. Astolfi, Organic Rankine Cycle (ORC) Power Systems, Technologies and Applications, Elsevier, 2017.

A. De Pascale, Organic Rankine Cycle Technology for heat Recovery, IntechOpen, 2018.

E. Wang, Organic Rankine Cycle for Energy Recovery System, MDPI, 2020.