# NORCE's Modelling and Simulation group

**Specific calls of interest:**
We are looking for consortium(s) and project partners for these calls:

- **HORIZON-CL4-2027-02-MAT-PROD-32-two-stage**
- **HORIZON-CL4-2027-01-MAT-PROD-16**
- **HORIZON-CID-2027-01-01**

**NORCE's Modelling and Simulation group can offer expertise in:**

- Comprehensive process and value-chain models
- Life-cycle analysis as a tool for developing new processes
- Multiphysics modelling

The group has a proven track record of developing new metallurgical processes from for instance the H2Si [1] and DICO2F [2] projects, and the ZeMe [3] and HyValue [4] Norwegian Centers of Excellence. It is world leading in multiphysics modelling of electrical conditions in submerged-arc furnaces for ferroalloy production (ElMet [5], SAFECI [6], and SAPPHIRE [7] projects). The group also has significant experience in structural modelling, particularly thermal stresses in carbon materials (industry assignments).

NORCE Modelling and Simulation is collaborating actively with the metal producers Elkem, Eramet, Wacker Chemicals, and Finnfjord.

Past and present academic collaborations include the Universities of Oxford, Santiago de Compostela, and Reykjavík, as well as the Norwegian University of Science and Technology and the University of Agder.

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