

Results of the SINE2020 Industry Consultancy and the role of neutron science in industrial innovation

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How to develop an innovative process for efficient and high-quality development of advanced materials and components?

The EU-Horizon2020 project SINE2020 aims at strengthening the cooperation between industry and European neutron sources. Free of charge, the project offers training and education of industrial researchers and the possibility to perform test measurements at the participating neutron facilities.

In this presentation we introduce the results of the industry consultancy initiative in the H2020 project SINE2020 and share our success stories and obstacles in improving cooperation between industry and neutron facilities. We will introduce our strategy paper for the future in this field and show the results of different neutron based experiments we provided to industrial users via the SINE2020 free feasibility study offer:

- Residual stress measurement with neutron diffraction
- Neutron scattering of interpenetrating polymer networks (IPNs) as medical devices
- Behaviour of a surfactant by small angle neutron scattering (SANS)
- Insights in fuel cells with neutron radiography
- and more

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