

CATE → PRO

Explore a new market
Increase your manufacturing expertise
Manufacture in new materials



What is CATE-Pro?

CATE-PRO is a project aiming to support local manufacturing companies in the south of Sweden who have an interest of expanding their competence in order to increase their ability to become suppliers of advanced equipment to research facilities e.g. ESS, MAX IV and CERN.

By participating in the project, you will have the opportunity to manufacture prototypes with varying difficulty under the direction of researchers at the competence center ProMatEn at LTH, Lund University. A close cooperation will be initiated between you as a company and researchers operative within ProMatEn. You will also be able to extend your contacts with researchers at ESS and MAX IV, and the ability to support and help of experts in various fields related to research facilities.

CATE-PRO is co-financed by the EU European regional development fund, Lund University, Region Skåne, IUC Syd and ESS. Region Blekinge is a supporting part to the project. CATE-PRO aims to work with manufacturing companies in the regions of Skåne and Blekinge.

Time frame: 1 January 2016 – 31 December 2018

Structure of the project

By participating in the project your company has a great opportunity to develop your knowledge and skills in several different areas, based on accelerator technology which are of importance in the building of a research facility. Examples of technological areas:

- Metal cutting: Turning and milling
- Welding: Electron beam, laser and TIG
- Brazing
- Measuring: Surfaces and tolerances, effect of cryogenics
- Cryogenics: Pressure vessels, transportation of medium
- Vacuum
- Magnets
- Surface treatment: Coating, etching, cleaning

Specific project plans will be adapted to your company's present conditions. The project will provide the material necessary to manufacture a specific prototype. Knowledge from scientists at Lund University and in some cases from research facilities will also be provided.

Participating companies will manufacture prototypes by learning-by-doing. Any unsuccessful manufacturing process is a part of a learning process. The activities in the manufacturing process of a prototype should be documented in case of any failure in the process. This to understand the upcoming problems and to reduce the risk that the same problem will occur in the future.

Competence within several technological areas is often required when manufacturing components to accelerators. By participating in the project, you will have the opportunity to extend your network with other companies, complementary competences. This is cooperation for a successful manufacturing.



What are the benefits for your company?

Participating in the project gives substantial value:

- You will have a great opportunity to explore a new market or strengthen your company's position on an already existing market.
- You will get increased knowledge which benefits your company to be qualified as a supplier to other high-tech-intensive markets.
- The prototypes produced in the project can be used as demonstrators when marketing your company to research facilities.
- You will extend your network with companies in the region for future collaboration in projects which requires several different manufacturing competences.

New competence and increased competitiveness

There is a potential for an extended collaboration in future projects when establishing contacts with researchers within the academy and different research facilities. This gives you the opportunity to be in the front edge of the development in the manufacturing industry.

By established contacts at ESS and MAX IV your company will have a better overview of required competences when the facilities are in an operating phase and covers upgrades, reparations and maintenance. With obtained knowledge and experience from participation in the project, your company's global competitiveness will increase among Swedish manufacturing, when making business to international research facilities.

A unique opportunity to work with new materials

By participating in the project your company will have the unique opportunity to experiment with manufacturing methods and component manufacturing in different materials which might be previously unknown or outside your normal production. New knowledge about other materials can have positive spin-off effects with access to new markets.

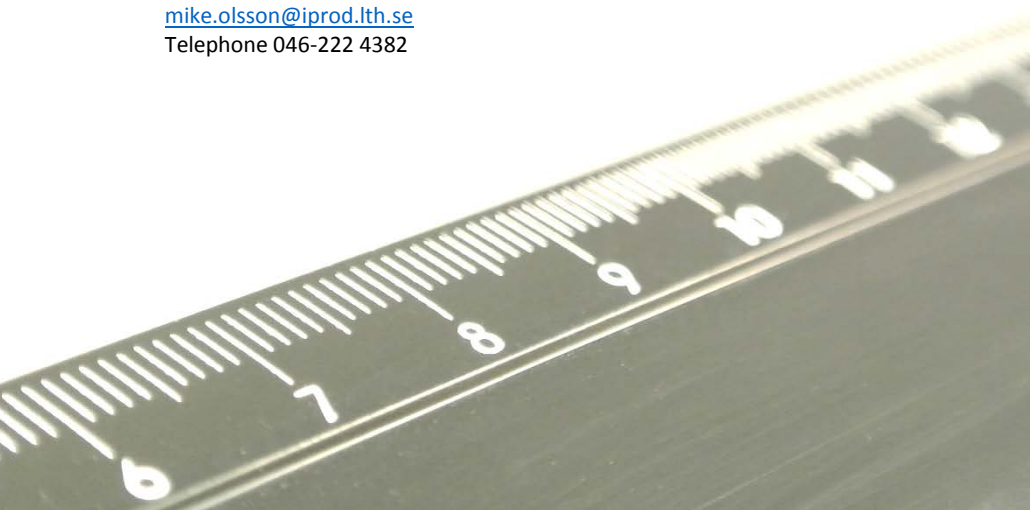


How do I get more information?

To be updated with the latest information about the project and its activities, visit the Industriell Plattform website, industriellplattform.se/cate-pro/. Here you have the possibility to sign up for a newsletter from Industriell Plattform to be updated with the latest information about CATE-PRO.

Contact

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