



**Smartare
Elektroniksystem**
ELECTRONIC COMPONENTS & SYSTEMS

Beviljade projekt 2020

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Ett strategiskt innovationsprogram för att öka konkurrenskraft och tillväxt i svensk industri

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I utlysningen för Forsknings- och Innovationsprojekt som stängde 12 mars 2020 beviljades 9 projekt av de totalt 53 som ansökningar som inkom. De 9 projekten delar på 24,1 miljoner kr i bidrag.

Battery control in high current CMOS

Project budget 6 166 000 kronor, granted funding 1 990 000 kronor

Partners in project: Linköping University, Jonsson Power Engineering AB, Scania CV AB, SEM AB, Flex Power Modules

Objectives for project: Design and evaluate technologies for integrated converter in CMOS for battery module with voltage 3-16V and current up to 200A.

Read more about the project at [Vinnova web](#) or [the project summary here](#).

Wireless NFC TensionCam sensor with Bridge module

Project budget 1 574 740 kronor, granted funding 778 740 kronor

Partners in project: TensionCam Systems AB, RISE, Alfa Laval AB, Halling Plast AB

Objective: Develop a NFC based Gen 2 sensor along with a NFCW Bridge module enabling wireless remote monitoring for industrial heat exchanger and water pipe flanges.

Read more about the project at [Vinnova web](#) or [the project summary here](#).

Automatic Cargo Tracking - ACT

Project budget 8 048 212 kronor, granted funding 3 992 140 kronor

Partners in project: Blue Science Park, Blekinge Tekniska Högskola, Wireless Independent Provider AB, Bilspeditioners Transportförening/ DB Schenker Sverige AB, Smålands Logistik

Objectives for project: To implement a POC together with BTF / Schenker and Småland's logistics where we test our automatic package tracking solution in a real environment

Read more about the project [Vinnova web](#) or [the project summary here](#).

Beviljade projekt 2020

A multiplex nanoplasmonic battery sensor for improved battery management

Project budget 3 896 800 kronor, granted funding 1 908 800 kronor

Partners in project: Insplorion Sensor Systems AB, RISE, Mid Sweden University

Objective: Develop a prototype of a multiplexed nanoplasmonic battery sensor that enables simultaneous operando measurements of temperature and physico-chemical changes

Read more about the project at [Vinnova web](#) or [the project summary here](#).

DUMLE – Double-sided lung monitoring using extended laser electronics

Project budget 3 178 000 kronor, granted funding 1 589 000 kronor

Partners in project: GPX Medical AB, NEOLund AB

Objective: Development of a new embedded and smart technical platform for tunable diode laser spectroscopy that handles 4 lasers and 4 detectors

Read more about the project at [Vinnova web](#) or [the project summary here](#).

Smart melts part II

Project budget 8 000 000 kronor, granted funding 4 000 000 kronor

Partners in project: RISE, Swerim, Uppsala University, Agellis Group AB, Sandvik Materials Technology, SSAB

Objective: Innovative sensor technology for steel production monitoring for higher quality and reduced consumption of raw materials and energy

Read more about the project at [Vinnova web](#) or [the project summary here](#).

A 5G/6G Analog-to-Digital Converter

Project budget 5 181 941 kronor, granted funding 2 500 000 kronor

Partners in project: Lund University, Ericsson AB

Objective: Design of a CMOS analog-to-digital converter for use in radio base stations for 5G/6G wireless millimeter-wave communication

Read more about the project [Vinnova web](#) or [the project summary here](#).

Beviljade projekt 2020

Radar-AI for interactive units

Project budget 10 210 000 kronor, beviljat bidrag 4 000 000 kronor

Partners in project: Acconeer AB, Imagimob AB and Flexworks AB

Objective: The project aims at capturing the best of two technology development trends, radar and AI, and establish a road map for an in-ear headphone gesture control offer

Read more about the project [Vinnova web](#) or [the project summary here](#).

First demonstrator announced, [read pressrelease](#) and [watch the video](#) to see how it works.

More efficient wireless performance testing for connected, self-driving vehicles and systems

Project budget 6 956 000 kronor, granted funding 3 376 000 kronor

Partners in project: RanLOS AB, Provinn AB

Objective: To reach a global market with RanLOS's and Provinns's products and services for measurement and test systems for connected, autonomous vehicles and connected devices in the new 5G networks

Read more about the project [Vinnova web](#) or [the project summary here](#).