

RELIANT: Industrial graduate school on Reliable, Safe and Secure Intelligent Autonomous Systems

The industrial research school **RELIANT targets reliable, safe** and secure intelligent autonomous Cyber-Physical Systems

Unique for the RELIANT research school is that all PhD-projects will be oriented around a common virtual use-case. The

common use-case will ensure that students and companies all contribute to, and learn from, something larger than their individual project.

(CPS) and aims to be instrumental in deployment of the latest research results regarding intelligent autonomous systems in Swedish industry. Our partners are found within vehicle solutions in transportation and construction, autonomous and intelligent systems, as well as electronics, communications and software for autonomous CPS. The results of RELIANT will support all business sectors where **next generation products** are assumed to have autonomous functionality with maintained or increased reliability, safety and security.

Industrial partners are welcome!

Present partners are: Alten, Arcticus Systems, Nordic Electronic Partner, Qamcom, RISE, Senseair, Unibap, Volvo Autonomous Solutions, Volvo Construction Equipment.

RELIANT activities

RELIANT is an integrated part of the Mälardalen University (MDU) strategic research area affiliated with the research environment Embedded Systems (ES), and comprises of three complementary activities:

Another goal of RELIANT is to make significant advances in technology and methodology for development of **intelligent** autonomous high-performance CPS and use of such systems in modern industries. The results should be able to use COTS (Commercial-of-The-Shelf) components and development tools, making results directly applicable to industrial use. RELIANT will target the conjunction of autonomy and **reliability** in combination with **safety** and **security**, with the goal to integrate all this in CPS. A key aspect of RELIANT is to address such problems through the collective experience facilitated by the virtual use-case concept.

Industrial PhD students

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- Joint activities for all PhD students
- Full coverage of supervisor costs
- **1. Research**, organized in the form of PhD research projects in industrial contexts. The PhD students will work in close cooperation with senior researchers at MDU, industrial specialists, and international researchers and experts.
- **2.** Networking activities, to establish strong networks between PhD students, industrial specialism Erdsna and the students and the students and the students of the s as well as with international and national researchers.
- LINKÖPING UNIVERSITY SAAB 3. Courses, seminars, and activities reated down the string ciplina competence especially targeting engine in the next. TEBORGETINETED CLE generation of reliable, safe and secure in the secure in t **Contact us** autonomous Cyber-Physical Systems KORS You FORWARD Gamoca SCAN NABLE EN

A primary goal of RELIANT is to strengthen the Swedish competitiveness within sates, see the set of the same set of the s GRU

- A salary support of 150kSEK/year and PhD student
- Travel budget for the student and company mentor
- Budget for open publications, software licenses, etc.

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Industrial graduate school

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www.es.mdu.se/reliant/

