

## **The VinnPRO Concept – cooperation with Industry**

In a current call for proposals, Vinnova provides funding to develop and increase the collaboration between industry and research schools. The proposal from Mälardalen Real-Time Research Centre (MRTC) is focused on pre- and post-doc activities, to be performed in conjunction with our existing and emerging graduate school activities.

In our proposal, we have several elements aimed at creating more intense, integrated, and dynamic cooperation between MRTC (with its associated research schools, research centers, and education) and its industry partners. In short, we propose the following:

**1. A Program for attracting new international and national M.Sc. students to our Software Engineering program.**

By increased collaboration with industry, MRTC/MdH will attract further excellent national and international M.Sc. students. An associated industry partner should provide M.Sc. theses projects with partial supervision, project work, or internship (summer work). The industry-student collaborations are expected to typically lead to employment or a continued cooperation during subsequent graduate studies.

**2. Post Doc Program for Industrial Ph.D. students.**

The program allows for graduated industrial Ph.D. students from our research schools (e.g. SAVE-IT) to continue their cooperation with MRTC. They will stay at the companies and be affiliated to MRTC as adjunct researchers (e.g. 20%) to investigate and coordinate possible research cooperation. The affiliated industry partner is partially funded by VinnPRO, and will via the PostDoc benefit from the networking and competence provided by MRTC.

**3. International Post Doc Program.**

The post docs will stay both at MRTC and at an associated industry partner, and work on research or development projects of high relevance for the industry partner. A combination with other dedicated projects will be possible (e.g. EU-IST or ITEA projects). Funding for the post doc will be divided between the industry partner and VinnPRO. We plan to have two to three such post docs, staying one to two years, depending on the projects. The international post doc programme provides excellent opportunities for recruitment of internationally competitive engineers/researchers.

**4. Transfer of young researchers to companies.**

A post.doc program for students recently completing their Ph.D. at MRTC. The conditions will be similar to the international post docs (above). The researchers will work on common projects; they will be affiliated with MRTC/MDH, and paid by VinnPRO and the associated industry partner.

**5. Program for attracting international world-excellent researchers.**

The researchers will stay at MRTC and an associated industry partner, (s)he will be working on projects of high interest to the company, such as research, analysis, or experiments relevant to the company. Funding will be divided between the company and VinnPRO. We plan to have one to three such researches staying from six months to one year each – depending on the needs and requirements from industry. This program provides opportunities to establish cooperations with top ranked international researchers.